

ANALYTICAL REPORT

Job Number: 360-31308-2

SDG Number: 360-31308-2

Job Description: Olin Chemical Superfund Site

**CHECKED FOR COMPLETENESS
OF PARAMETERS ORDERED BY:**

[Signature]
4/29/2011

For:

Olin Corporation
3855 North Ocoee Street
Suite 200
Cleveland, TN 37312-4441
Attention: Mr. Steven Morrow

[Signature]

Approved for release.
James T Wickham
Technology Manager
4/11/2011 2:56 PM

Designee for
Becky C Mason
Project Manager II
becky.mason@testamericainc.com
04/11/2011

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. TestAmerica Westfield Certifications and Approvals: MADEP MA014, RIDOH57, CTDPH 0494, VT DECWSD, NH DES 2539, NELAP FL E87912 TOX, NELAP NJ MA008 TOX, NELAP NY 10843, NY ELAP 10843, North Carolina 647, NELAP PA 68-04386. Field sampling is performed under SOPs WE-FLD-001 and WE-FLD-002.

TestAmerica Laboratories, Inc.

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MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Westfield** Project #: **360-31308-1**

Project Location: **Olin Chemical Superfund Site** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):

360-31308-(11)

Matrices: Groundwater/Surface Water Soil/Sediment Drinking Water Air other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A <input type="checkbox"/>	7470/7471 Hg CAM III B <input type="checkbox"/>	Mass DEP VPH CAM IV A <input type="checkbox"/>	8081 Pesticides CAM V B <input type="checkbox"/>	7196 Hex Cr CAM VI B <input type="checkbox"/>	Mass DEP APH CAM IX A <input type="checkbox"/>
8270 SVOC CAM II B <input type="checkbox"/>	7010 Metals CAM III C <input type="checkbox"/>	Mass DEP EPH CAM IV B <input type="checkbox"/>	8151 Herbicides CAM V C <input type="checkbox"/>	8330 Explosives CAM VIII A <input type="checkbox"/>	TO-15 VOC CAM IX B <input type="checkbox"/>
6010 Metals CAM III A <input checked="" type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	8082 PCB CAM V A <input type="checkbox"/>	9014 Total Cyanide/PAC CAM VI A <input type="checkbox"/>	332.0 Perchlorate CAM VIII B <input type="checkbox"/>	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

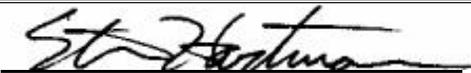
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

¹ All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature:  Position: Laboratory Director
 Printed Name: Steven C. Hartmann Date: 4/11/11 14:44

This form has been electronically signed and approved

CASE NARRATIVE

Client: Olin Corporation

Project: Olin Chemical Superfund Site

Report Number: 360-31308-2

Samples were analyzed in accordance with analytical methods, SOPs, and QA/QC goals described in the Olin Chemical Superfund Site Remedial Investigation /Feasibility Study Work Plan Volume III-B Quality Assurance Project Plan (QAPP) August 14, 2009. Analytical methods include USEPA published methods for the majority of analytes. Custom laboratory methods that were developed by Test America are also used for a subset of analytes as described in the QAPP. Analytical QA/QC goals from the Massachusetts Contingency Plan (MCP) Compendium of MCP Methods published by the Massachusetts Department of Environmental Protection (MassDEP) have been identified as project goals in the QAPP for those methods addressed in the Compendium. Analytical methods are run in accordance with both USEPA methodologies and MassDEP analytical guidelines. Analytical methods meet requirements of USEPA methods and MassDEP Presumptive Certainty goals unless discussed in this narrative.

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

For those methods contained in the MassDEP Compendium, a separate MCP Analytical Method Report Certification Form is included for each method requested.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may be greater than project QLs identified in the QAPP. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes which exceed the calibration range.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/01/2010, 12/02/2010 and 12/03/2010; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were -0.6 (not frozen), 2.6°C on 12/01/2010, and 1.2, 0.6°C on 12/02/2010 and 3.8, 2.0, 1.2°C on 12/03/2010.

TOTAL METALS (ICP)

Sample OC-SW-MMB-SW/SD-8A-XXX (360-31308-11) was analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared and analyzed on 12/06/2010.

In the original report for job 360-31308-1, sample 360-31308-(11) reported Copper at 140ug/L from a 2X dilution for EPA method SW846-6020 (ICPMS). The Copper result on sample 360-31308-(11) by EPA method SW846 6010B (ICP), yielded a result of 'ND' at 0.010mg/L. All other results between the two analytical methods confirmed each other, with the exception of Copper. It is the laboratory's belief that copper in sample 360-31308-(11), by SW846 6020, is an artifact of contamination during sample preparation. This deliverable reports Copper from the SW846 6010B analysis.

Only Copper is being reported for this deliverable.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Olin Corporation

Job Number: 360-31308-2

Sdg Number: 360-31308-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
360-31308-11	OC-SW-MMB-SW/SD-8A-XXX	Water	12/02/2010 1500	12/03/2010 1800

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 360-31308-2

Sdg Number: 360-31308-2

Lab Sample ID	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
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No Detections

METHOD SUMMARY

Client: Olin Corporation

Job Number: 360-31308-2

Sdg Number: 360-31308-2

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL WFD	SW846 6010B	
Preparation, Total Metals	TAL WFD		SW846 3010A

Lab References:

TAL WFD = TestAmerica Westfield

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Olin Corporation

Job Number: 360-31308-2

Sdg Number: 360-31308-2

Method	Analyst	Analyst ID
SW846 6010B	Smith, Tim J	TJS

Analytical Data

Client: Olin Corporation

Job Number: 360-31308-2

Sdg Number: 360-31308-2

Client Sample ID: OC-SW-MMB-SW/SD-8A-XXX

Lab Sample ID: 360-31308-11

Date Sampled: 12/02/2010 1500

Client Matrix: Water

Date Received: 12/03/2010 1800

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	360-66756	Instrument ID:	Varian ICP
Prep Method:	3010A	Prep Batch:	360-66700	Lab File ID:	120610c.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/06/2010 1729			Final Weight/Volume:	50 mL
Prep Date:	12/06/2010 0810				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Copper	ND		2.3	10

Quality Control Results

Client: Olin Corporation

Job Number: 360-31308-2
Sdg Number: 360-31308-2

Method Blank - Batch: 360-66700

Lab Sample ID: MB 360-66700/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/06/2010 1640
Prep Date: 12/06/2010 0810
Leach Date: N/A

Analysis Batch: 360-66756
Prep Batch: 360-66700
Leach Batch: N/A
Units: ug/L

Method: 6010B

Preparation: 3010A

Instrument ID: Varian ICP
Lab File ID: 120610c.csv
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Copper	ND		2.3	10

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 360-66700

Method: 6010B

Preparation: 3010A

LCS Lab Sample ID: LCS 360-66700/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/06/2010 1642
Prep Date: 12/06/2010 0810
Leach Date: N/A

Analysis Batch: 360-66756
Prep Batch: 360-66700
Leach Batch: N/A
Units: ug/L

Instrument ID: Varian ICP
Lab File ID: 120610c.csv
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 360-66700/3-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/06/2010 1645
Prep Date: 12/06/2010 0810
Leach Date: N/A

Analysis Batch: 360-66756
Prep Batch: 360-66700
Leach Batch: N/A
Units: ug/L

Instrument ID: Varian ICP
Lab File ID: 120610c.csv
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Copper	104	103	80 - 120	1	20		

Laboratory Control/

Laboratory Duplicate Data Report - Batch: 360-66700

Method: 6010B

Preparation: 3010A

LCS Lab Sample ID: LCS 360-66700/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/06/2010 1642
Prep Date: 12/06/2010 0810
Leach Date: N/A

Units: ug/L

LCSD Lab Sample ID: LCSD 360-66700/3-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/06/2010 1645
Prep Date: 12/06/2010 0810
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Copper	1000	1000	1040	1030

DATA REPORTING QUALIFIERS

Client: Olin Corporation

Job Number: 360-31308-2

Sdg Number: 360-31308-2

Lab Section	Qualifier	Description
Metals		
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Quality Control Results

Client: Olin Corporation

Job Number: 360-31308-2

Sdg Number: 360-31308-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 360-66700					
LCS 360-66700/2-A	Lab Control Sample	T	Water	3010A	
LCSD 360-66700/3-A	Lab Control Sample Duplicate	T	Water	3010A	
MB 360-66700/1-A	Method Blank	T	Water	3010A	
360-31308-11	OC-SW-MMB-SW/SD-8A-XXX	T	Water	3010A	
Analysis Batch:360-66756					
LCS 360-66700/2-A	Lab Control Sample	T	Water	6010B	360-66700
LCSD 360-66700/3-A	Lab Control Sample Duplicate	T	Water	6010B	360-66700
MB 360-66700/1-A	Method Blank	T	Water	6010B	360-66700
360-31308-11	OC-SW-MMB-SW/SD-8A-XXX	T	Water	6010B	360-66700

Report Basis

T = Total

Quality Control Results

Client: Olin Corporation

Job Number: 360-31308-2
SDG: 360-31308-2

Laboratory Chronicle

Lab ID: 360-31308-11

Client ID: OC-SW-MMB-SW/SD-8A-XXX

Sample Date/Time: 12/02/2010 15:00 Received Date/Time: 12/03/2010 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	360-31308-F-11-A		360-66756	360-66700	12/06/2010 08:10	1	TAL WFD	EMN
A:6010B	360-31308-F-11-A		360-66756	360-66700	12/06/2010 17:29	1	TAL WFD	TJS

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	MB 360-66700/1-A		360-66756	360-66700	12/06/2010 08:10	1	TAL WFD	EMN
A:6010B	MB 360-66700/1-A		360-66756	360-66700	12/06/2010 16:40	1	TAL WFD	TJS

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	LCS 360-66700/2-A		360-66756	360-66700	12/06/2010 08:10	1	TAL WFD	EMN
A:6010B	LCS 360-66700/2-A		360-66756	360-66700	12/06/2010 16:42	1	TAL WFD	TJS

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	LCSD 360-66700/3-A		360-66756	360-66700	12/06/2010 08:10	1	TAL WFD	EMN
A:6010B	LCSD 360-66700/3-A		360-66756	360-66700	12/06/2010 16:45	1	TAL WFD	TJS

Lab References:

TAL WFD = TestAmerica Westfield

Certification Summary

Client: Olin Corporation
Project/Site: Olin Chemical Superfund Site

TestAmerica Job ID: 360-31308-2
SDG: 360-31308-2

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Westfield	Connecticut	State Program	1	PH-0494
TestAmerica Westfield	Florida	NELAC	4	E87912
TestAmerica Westfield	Maine	State Program	1	MA00014
TestAmerica Westfield	Massachusetts	State Program	1	M-MA014
TestAmerica Westfield	New Hampshire	NELAC	1	2539
TestAmerica Westfield	New Jersey	NELAC	2	MA008
TestAmerica Westfield	New York	NELAC	2	10843
TestAmerica Westfield	North Carolina	North Carolina DENR	4	647
TestAmerica Westfield	Rhode Island	State Program	1	LAO00057
TestAmerica Westfield	Vermont	State Program	1	VT-10843

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Westfield Job Number: 360-31308-2

SDG No.: 360-31308-2

Project: Olin Chemical Superfund Site

Client Sample ID
OC-SW-MMB-SW/SD-8A-XXX

Lab Sample ID
360-31308-11

Comments:

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: OC-SW-MMB-SW/SD-8A-XXX

Lab Sample ID: 360-31308-11

Lab Name: TestAmerica Westfield

Job No.: 360-31308-2

SDG ID.: 360-31308-2

Matrix: Water

Date Sampled: 12/02/2010 15:00

Reporting Basis: WET

Date Received: 12/03/2010 18:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-50-8	Copper	ND	10	2.3	ug/L			1	6010B

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Westfield Job No.: 360-31308-2

SDG No.: 360-31308-2

ICV Source: ICV1 ICP_00005 Concentration Units: ug/L

CCV Source: MEVARCCV_00016

Analyte	ICV 360-66756/6 12/06/2010 11:36				CCV 360-66756/21 12/06/2010 16:20				CCV 360-66756/30 12/06/2010 17:00			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Copper	1040		1000	104	1030		1000	103	1030		1000	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Westfield Job No.: 360-31308-2

SDG No.: 360-31308-2

ICV Source: ICV1 ICP_00005 Concentration Units: ug/L

CCV Source: MEVARCCV_00016

Analyte	CCV 360-66756/42 12/06/2010 17:35											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Copper	1020		1000	102								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Westfield Job No.: 360-31308-2
SDG No.: 360-31308-2
Analysis Method: 6010B Instrument ID: Varian ICP
Lab Sample ID: CRI 360-66756/18 Concentration Units: ug/L
CRQL Check Standard Source: CRI-RL ICP_00005

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Copper	10.0	11.2		112	70-130

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Westfield Job No.: 360-31308-2

SDG No.: 360-31308-2

Concentration Units: ug/L

Analyte	RL	ICB 360-66756/15 12/06/2010 12:11		CCB 360-66756/22 12/06/2010 16:23		CCB 360-66756/31 12/06/2010 17:03		CCB 360-66756/43 12/06/2010 17:38	
		Found	C	Found	C	Found	C	Found	C
Copper	10	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Westfield Job No.: 360-31308-2
SDG No.: 360-31308-2
Concentration Units: ug/L Lab Sample ID: MB 360-66700/1-A
Instrument Code: Varian ICP Batch No.: 66756

CAS No.	Analyte	Concentration	C	Q	Method
7440-50-8	Copper	ND			6010B

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Westfield

Job No.: 360-31308-2

SDG No.: 360-31308-2

Lab Sample ID: ICSA 360-66756/10

Instrument ID: Varian ICP

Lab File ID: 120610c.csv

ICS Source: ICSA wk_00011

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution A	Solution A	
Copper		0.0794	
Aluminum	100000	108075	108
Antimony		-1.43	
Arsenic		0.560	
Barium		0.830	
Beryllium		0.0468	
Boron		1.49	
Cadmium		0.137	
Calcium	100000	102527	103
Chromium		0.281	
Cobalt		-0.378	
Iron	100000	107842	108
Lead		-1.50	
Lithium		1.44	
Magnesium	100000	99986	100
Manganese		-0.941	
Molybdenum		0.364	
Nickel		0.192	
Potassium		849	
Selenium		-3.68	
Silicon		-6.75	
Silicon		-1.74	
Silver		0.0878	
SiO ₂ , Silica		-14.4	
Sodium		117	
Strontium		0.476	
Thallium		1.38	
Tin		-1.94	
Titanium		-0.313	
Vanadium		-3.36	
Zinc		3.63	
Zirconium		1.20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Westfield

Job No.: 360-31308-2

SDG No.: 360-31308-2

Lab Sample ID: ICSAB 360-66756/11

Instrument ID: Varian ICP

Lab File ID: 120610c.csv

ICS Source: ICSAB_00017

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Copper	600	575	96
Aluminum	100000	108255	108
Antimony	1000	962	96
Arsenic	2000	1816	91
Barium	600	544	91
Beryllium	200	166	83
Boron		0.618	
Cadmium	600	534	89
Calcium	100000	102215	102
Chromium	600	533	89
Cobalt	600	535	89
Iron	100000	107846	108
Lead	2000	1727	86
Lithium		1.50	
Magnesium	100000	100898	101
Manganese	400	354	89
Molybdenum		0.173	
Nickel	600	529	88
Potassium	40000	38785	97
Selenium	1000	893	89
Silicon		-8.56	
Silicon		-3.24	
Silver	600	576	96
SiO2, Silica		-18.3	
Sodium		13.0	
Strontium		0.469	
Thallium	2000	1760	88
Tin		-1.65	
Titanium		0.0379	
Vanadium	600	541	90
Zinc	600	507	85
Zirconium		2.24	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Westfield Job No.: 360-31308-2
 SDG No.: 360-31308-2
 Lab Sample ID: ICSA 360-66756/57 Instrument ID: Varian ICP
 Lab File ID: 120610c.csv ICS Source: ICSA wk_00011
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Copper		0.0817	
Aluminum	100000	109783	110
Antimony		-0.587	
Arsenic		0.567	
Barium		0.783	
Beryllium		0.0487	
Boron		9.31	
Cadmium		0.123	
Calcium	100000	103365	103
Chromium		0.353	
Cobalt		-0.473	
Iron	100000	108494	108
Lead		-1.21	
Lithium		1.49	
Magnesium	100000	100701	101
Manganese		-0.898	
Molybdenum		0.627	
Nickel		0.154	
Potassium		1294	
Selenium		-4.59	
Silicon		-4.88	
Silicon		-2.55	
Silver		0.672	
SiO ₂ , Silica		-10.5	
Sodium		148	
Strontium		0.522	
Thallium		1.32	
Tin		-1.79	
Titanium		0.0405	
Vanadium		-3.22	
Zinc		4.68	
Zirconium		1.41	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Westfield

Job No.: 360-31308-2

SDG No.: 360-31308-2

Lab Sample ID: ICSAB 360-66756/58

Instrument ID: Varian ICP

Lab File ID: 120610c.csv

ICS Source: ICSAB_00017

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Copper	600	581	97
Aluminum	100000	109530	110
Antimony	1000	963	96
Arsenic	2000	1805	90
Barium	600	552	92
Beryllium	200	167	84
Boron		6.20	
Cadmium	600	529	88
Calcium	100000	102580	103
Chromium	600	533	89
Cobalt	600	534	89
Iron	100000	107751	108
Lead	2000	1723	86
Lithium		1.24	
Magnesium	100000	100316	100
Manganese	400	355	89
Molybdenum		0.144	
Nickel	600	526	88
Potassium	40000	39418	99
Selenium	1000	885	89
Silicon		-7.64	
Silicon		-3.26	
Silver	600	579	97
SiO2, Silica		-16.4	
Sodium		293	
Strontium		0.506	
Thallium	2000	1751	88
Tin		-0.603	
Titanium		0.186	
Vanadium	600	545	91
Zinc	600	517	86
Zirconium		3.76	

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 360-66700/2-A

Lab Name: TestAmerica Westfield

Job No.: 360-31308-2

Sample Matrix: Water

LCS Source: stlma-3_00050

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Copper	1000	1040		104	80	120		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7D-IN
 LAB CONTROL SAMPLE DUPLICATE
 METALS

Lab ID: LCSD 360-66700/3-A

Lab Name: TestAmerica Westfield

Job No.: 360-31308-2

Sample Matrix: Water

LCS Source: stlma-3_00050

Analyte	(SDR) C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Copper	1030	1000	103	80-120	1	20		6010B

SDR = Spike Duplicate Results

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Westfield Job Number: 360-31308-2
SDG Number: 360-31308-2
Matrix: Water Instrument ID: Varian ICP
Analysis Method: 6010B MDL Date: 10/07/2010 00:00
Prep Method: 3010A
Leach Method: _____

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Copper	327.395	10	2.34

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Westfield Job Number: 360-31308-2
SDG Number: 360-31308-2
Matrix: Water Instrument ID: Varian ICP
Analysis Method: 6010B XMDL Date: 10/19/2010 15:56

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Copper	327.395	10	2.34

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Westfield Job Number: 360-31308-2

SDG No.: 360-31308-2

ICP-AES Instrument ID: Varian ICP Date: 10/21/2010

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg
Aluminum	237.312									0.046811					
Antimony	217.582								0.000313	0.000165					
Arsenic	188.980										0.000299				
Barium	493.408														
Beryllium	313.042			0.008106											
Boron	249.678									0.001491	0.000396				
Cadmium	214.439									0.008106			0.000015		
Calcium	373.690												0.007270		
Chromium	267.716														
Cobalt	228.615												0.000033		
Copper	327.395									0.000280					
Iron	273.955										0.000749				
Lead	220.353												-0.000002		
Magnesium	279.078												0.000122		
Manganese	257.610														0.000028
Molybdenum	202.032														
Nickel	216.555			0.003946									0.007270		
Potassium	404.721					0.273376							0.003008		
Selenium	196.026														
Silicon	251.611														
Silver	338.289										0.021069		0.000002		
Sodium	330.237					-0.558878									
Strontium	421.552							0.000019							
Thallium	190.794							0.000003		0.002871	0.000220				
Tin	189.925														0.000028
Titanium	336.122														
Vanadium	292.401							0.000019					0.000023		
Zinc	202.548											0.008106	0.000013		
Zirconium	339.198														

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Westfield Job Number: 360-31308-2

SDG No.: 360-31308-2

ICP-AES Instrument ID: Varian ICP Date: 10/21/2010

Analyte	Wave Length	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	SiO2	Sn	Sr	Ti	Tl	V
Aluminum	237.312														-0.000347
Antimony	217.582				0.000004										0.002230
Arsenic	188.980														
Barium	493.408														
Beryllium	313.042														0.000270
Boron	249.678								0.001138						
Cadmium	214.439														
Calcium	373.690														
Chromium	267.716														
Cobalt	228.615				0.000299								0.001802		
Copper	327.395														
Iron	273.955														
Lead	220.353														
Magnesium	279.078														
Manganese	257.610						-0.000007								
Molybdenum	202.032														
Nickel	216.555														
Potassium	404.721														
Selenium	196.026	0.000671													
Silicon	251.611		0.016695				0.001760						0.008862		
Silver	338.289				0.001539								0.001440		-0.000259
Sodium	330.237														
Strontium	421.552														
Thallium	190.794														0.001539
Tin	189.925														
Titanium	336.122														
Vanadium	292.401												0.000663		
Zinc	202.548														
Zirconium	339.198		0.000138						0.000138						

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Westfield Job Number: 360-31308-2

SDG No.: 360-31308-2

ICP-AES Instrument ID: Varian ICP Date: 10/21/2010

Analyte	Wave Length	Zn	Zr												
Aluminum	237.312														
Antimony	217.582														
Arsenic	188.980														
Barium	493.408														
Beryllium	313.042														
Boron	249.678														
Cadmium	214.439														
Calcium	373.690														
Chromium	267.716														
Cobalt	228.615														
Copper	327.395														
Iron	273.955														
Lead	220.353														
Magnesium	279.078														
Manganese	257.610														
Molybdenum	202.032														
Nickel	216.555														
Potassium	404.721														
Selenium	196.026														
Silicon	251.611														
Silver	338.289														
Sodium	330.237														
Strontium	421.552														
Thallium	190.794														
Tin	189.925														
Titanium	336.122														
Vanadium	292.401														
Zinc	202.548														
Zirconium	339.198														

11-IN
ICP-AES AND ICP-MS LINEAR RANGES
METALS

Lab Name: TestAmerica Westfield

Job No: 360-31308-2

SDG No.: 360-31308-2

Instrument ID: Varian ICP

Date: 10/21/2010 09:54

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Copper		50000	6010B

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Westfield

Job No.: 360-31308-2

SDG No.: 360-31308-2

Preparation Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 360-66700/1-A	12/06/2010 08:10	66700		50	50
LCS 360-66700/2-A	12/06/2010 08:10	66700		50	50
LCSD 360-66700/3-A	12/06/2010 08:10	66700		50	50
360-31308-11	12/06/2010 08:10	66700		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Westfield Job No.: 360-31308-2

SDG No.: 360-31308-2

Instrument ID: Varian ICP Method: 6010B

Start Date: 12/06/2010 11:22 End Date: 12/06/2010 19:05

Lab Sample ID	D / F	Type	Time	Analytes															
				Cu															
ZZZZZZ			11:22																
ZZZZZZ			11:24																
ZZZZZZ			11:27																
ZZZZZZ			11:30																
ZZZZZZ			11:33																
ICV 360-66756/6	1		11:36	X															
ICB 360-66756/7			11:39																
CRI 360-66756/8			11:42																
CRI 360-66756/9			11:45																
ICSA 360-66756/10	1		11:48	X															
ICSAB 360-66756/11	1		11:51	X															
ZZZZZZ			11:53																
CCV 360-66756/13			11:56																
CCB 360-66756/14			12:08																
ICB 360-66756/15	1		12:11	X															
ICV 360-66756/16			12:14																
ICV 360-66756/17			12:17																
CRI 360-66756/18	1		12:40	X															
CRI 360-66756/19			12:43																
ICV 360-66756/20			12:46																
CCV 360-66756/21	1		16:20	X															
CCB 360-66756/22	1		16:23	X															
MB 360-66700/1-A	1	T	16:40	X															
LCS 360-66700/2-A	1	T	16:42	X															
LCSD 360-66700/3-A	1	T	16:45	X															
ZZZZZZ			16:48																
ZZZZZZ			16:51																
ZZZZZZ			16:54																
ZZZZZZ			16:57																
CCV 360-66756/30	1		17:00	X															
CCB 360-66756/31	1		17:03	X															
ZZZZZZ			17:06																
ZZZZZZ			17:09																
ZZZZZZ			17:12																
ZZZZZZ			17:15																
ZZZZZZ			17:17																
ZZZZZZ			17:20																
ZZZZZZ			17:23																
ZZZZZZ			17:26																
360-31308-11	1	T	17:29	X															
ZZZZZZ			17:32																
CCV 360-66756/42	1		17:35	X															

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Westfield Job No.: 360-31308-2

SDG No.: 360-31308-2

Instrument ID: Varian ICP Method: 6010B

Start Date: 12/06/2010 11:22 End Date: 12/06/2010 19:05

Lab Sample ID	D / F	T y p e	Time	Analytes															
				C u															
CCB 360-66756/43	1		17:38	X															
ZZZZZZ			17:41																
ZZZZZZ			17:44																
ZZZZZZ			17:46																
ZZZZZZ			17:49																
ZZZZZZ			17:52																
ZZZZZZ			17:55																
ZZZZZZ			17:58																
ZZZZZZ			18:01																
ZZZZZZ			18:04																
CCV 360-66756/53			18:10																
CCB 360-66756/54			18:13																
CCV 360-66756/55			18:56																
CCB 360-66756/56			18:59																
ICSA 360-66756/57	1		19:02	X															
ICSAB 360-66756/58	1		19:05	X															

Prep Types
T = Total/NA

Method Parameters**Analysis Lines**

Label	El	Wavelen.	Type	I/S	Bkg Mode	PPP	OBCL	OBCR
Ag 338.289	Ag	338.289	Analyte	-	Fitted	2		
Al 237.312	Al	237.312	Analyte	-	Fitted	2		
As 188.980	As	188.980	Analyte	-	Fitted	2		
B 249.678	B	249.678	Analyte	-	Fitted	2		
Ba 493.408	Ba	493.408	Analyte	-	Fitted	2		
Be 313.042	Be	313.042	Analyte	-	Fitted	2		
Ca 373.690	Ca	373.690	Analyte	-	Fitted	2		
Cd 214.439	Cd	214.439	Analyte	-	Fitted	2		
Co 228.615	Co	228.615	Analyte	-	Fitted	2		
Cr 267.716	Cr	267.716	Analyte	-	Fitted	2		
Cu 327.395	Cu	327.395	Analyte	-	Fitted	2		
Fe 273.955	Fe	273.955	Analyte	-	Fitted	2		
K 404.721	K	404.721	Analyte	-	Fitted	2		
Li 610.365	Li	610.365	Analyte	-	Fitted	2		
Mg 279.078	Mg	279.078	Analyte	-	Fitted	2		
Mn 257.610	Mn	257.610	Analyte	-	Fitted	2		
Mo 202.032	Mo	202.032	Analyte	-	Fitted	2		
Na 330.237	Na	330.237	Analyte	-	Fitted	2		
Ni 216.555	Ni	216.555	Analyte	-	Fitted	2		
Pb 220.353	Pb	220.353	Analyte	-	Fitted	2		
Sb 217.582	Sb	217.582	Analyte	-	Fitted	2		
Se 196.026	Se	196.026	Analyte	-	Fitted	2		
Si 251.611	Si	251.611	Analyte	-	Fitted	2		
Si 288.158	Si	288.158	Analyte	-	Fitted	2		
Sn 189.925	Sn	189.925	Analyte	-	Fitted	2		
Sr 421.552	Sr	421.552	Analyte	-	Fitted	2		
Ti 336.122	Ti	336.122	Analyte	-	Fitted	2		
Tl 190.794	Tl	190.794	Analyte	-	Fitted	2		
V 292.401	V	292.401	Analyte	-	Fitted	2		
Zn 202.548	Zn	202.548	Analyte	-	Fitted	2		
Zr 339.198	Zr	339.198	Analyte	-	Fitted	2		

Conditions Sets (All lines share a single condition set)

Pwr(kW)	PlasFlow(L/min)	AuxFlow(L/min)	NebFlow(L/min)	Replicate Time(s)	Stab Time(s)
1.20	15.0	1.50	0.75	30.000	20

Sample Introduction

Sample Uptake(s)	Rinse Time(s)	Pump Rate(rpm)	Fast Pump
30	45	13	On

General Settings

Replicates
2

Calibration Settings

Calib. Mode	No. Standards	Corr Coeff Limit	Reslopes
Quantitative	2	0.995000	Off

Standard Concentration

El	Units	Standard 1	Standard 2
Ag	ug/L	1000.00000	
Al	ug/L	5000.00000	25000.00000
As	ug/L	1000.00000	
B	ug/L	1000.00000	
Ba	ug/L	1000.00000	
Be	ug/L	1000.00000	
Ca	ug/L	20000.00000	100000.00000
Cd	ug/L	1000.00000	
Co	ug/L	1000.00000	
Cr	ug/L	1000.00000	
Cu	ug/L	1000.00000	
Fe	ug/L	5000.00000	25000.00000
K	ug/L	20000.00000	100000.00000
Li	ug/L	5000.00000	
Mg	ug/L	20000.00000	100000.00000
Mn	ug/L	1000.00000	
Mo	ug/L	1000.00000	
Na	ug/L	20000.00000	100000.00000
Ni	ug/L	1000.00000	
Pb	ug/L	1000.00000	
Sb	ug/L	1000.00000	
Se	ug/L	1000.00000	
Si	ug/L	1000.00000	
Sn	ug/L	1000.00000	
Sr	ug/L	1000.00000	
Ti	ug/L	1000.00000	
Tl	ug/L	1000.00000	
V	ug/L	1000.00000	
Zn	ug/L	1000.00000	
Zr	ug/L	1000.00000	

Calibration Parameters

Label	Thru. Blk	W/Fit	Curve Type	Max Error	Min Conc	Max Conc	E/Curve %	U/Curve %
Ag 338.289	Off	On	Linear	5.0	0.00000	25000.00000	25	400
Al 237.312	Off	On	Quadratic	20.0	0.00000	600000.00000	25	400
As 188.980	Off	On	Linear	20.0	0.00000	50000.00000	25	400
B 249.678	Off	On	Linear	20.0	0.00000	20000.00000	25	400
Ba 493.408	Off	On	Linear	20.0	0.00000	12500.00000	25	400
Be 313.042	Off	On	Linear	20.0	0.00000	10000.00000	25	400
Ca 373.690	Off	On	Quadratic	20.0	0.00000	500000.00000	25	400
Cd 214.439	Off	On	Linear	20.0	0.00000	20000.00000	25	400
Co 228.615	Off	On	Linear	20.0	0.00000	50000.00000	25	400
Cr 267.716	Off	On	Linear	20.0	0.00000	50000.00000	25	400
Cu 327.395	Off	On	Linear	20.0	0.00000	50000.00000	25	400
Fe 273.955	Off	On	Quadratic	20.0	0.00000	700000.00000	25	400
K 404.721	Off	On	Quadratic	20.0	0.00000	400000.00000	25	400
Li 610.365	Off	On	Linear	20.0	0.00000	100000.00000	25	400
Mg 279.078	Off	On	Quadratic	20.0	0.00000	300000.00000	25	400
Mn 257.610	Off	On	Linear	20.0	0.00000	20000.00000	25	400
Mo 202.032	Off	On	Linear	20.0	0.00000	50000.00000	25	400
Na 330.237	Off	On	Quadratic	20.0	0.00000	500000.00000	25	400
Ni 216.555	Off	On	Linear	20.0	0.00000	50000.00000	25	400
Pb 220.353	Off	On	Linear	20.0	0.00000	100000.00000	25	400
Sb 217.582	Off	On	Linear	20.0	0.00000	50000.00000	25	400

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Label	Thru. Blk	W/Fit	Curve Type	Max Error	Min Conc	Max Conc	E/Curve %	U/Curve %
Se 196.026	Off	On	Linear	20.0	0.00000	50000.00000	25	400
Si 251.611	Off	Off	Linear	20.0	0.00000	25000.00000	25	400
Si 288.158	Off	On	Linear	20.0	0.00000	25000.00000	25	400
Sn 189.925	Off	On	Linear	5.0	0.00000	20000.00000	25	400
Sr 421.552	Off	On	Linear	20.0	0.00000	10000.00000	25	400
Ti 336.122	Off	On	Linear	20.0	0.00000	20000.00000	25	400
Tl 190.794	Off	On	Linear	20.0	0.00000	75000.00000	25	400
V 292.401	Off	On	Linear	20.0	0.00000	50000.00000	25	400
Zn 202.548	Off	On	Linear	20.0	0.00000	25000.00000	25	400
Zr 339.198	Off	On	Linear	5.0	0.00000	20000.00000	25	400

Detection Limits

El	Units	MDL	CRDL
Ag	ug/L	0.00000	5.00000
Al	ug/L	0.00000	100.00000
As	ug/L	0.00000	10.00000
B	ug/L	0.00000	50.00000
Ba	ug/L	0.00000	10.00000
Be	ug/L	0.00000	1.00000
Ca	ug/L	0.00000	400.00000
Cd	ug/L	0.00000	1.00000
Co	ug/L	0.00000	10.00000
Cr	ug/L	0.00000	5.00000
Cu	ug/L	0.00000	10.00000
Fe	ug/L	0.00000	100.00000
K	ug/L	0.00000	4000.00000
Li	ug/L	0.00000	100.00000
Mg	ug/L	0.00000	400.00000
Mn	ug/L	0.00000	10.00000
Mo	ug/L	0.00000	40.00000
Na	ug/L	0.00000	2000.00000
Ni	ug/L	0.00000	10.00000
Pb	ug/L	0.00000	5.00000
Sb	ug/L	0.00000	6.00000
Se	ug/L	0.00000	10.00000
Si	ug/L	0.00000	75.00000
Sn	ug/L	0.00000	50.00000
Sr	ug/L	0.00000	20.00000
Ti	ug/L	0.00000	10.00000
Tl	ug/L	0.00000	10.00000
V	ug/L	0.00000	10.00000
Zn	ug/L	0.00000	50.00000
Zr	ug/L	0.00000	10.00000

QCP Tests

QC Test Name	Failure Flag	Count As Sample	Subtract PBlk	No. Solutions
Cont Calib Verif	Q	Off	Off	1
Initial Calib Verif	Q	Off	Off	2
CRI	R	Off	Off	2
Lab Control Sample	L	On	Off	2
Interf Check A	K	Off	Off	1
Interf Check AB	G	Off	Off	1
Cont Calib Blank	Z	Off	Off	1
Initial Calib Blank	Z	Off	Off	1

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QC Test Name	Failure Flag	Count As Sample	Subtract PBlk	No. Solutions
Duplicate	*	On	Off	1
Matrix Spike	N	On	Off	1
Matrix Spike Dup	M	On	Off	1
Prep Blank	Z	Off	Off	1

Cont Calib Verif

Report Equation: (MeasuredConc / CCVDefined) * 100

Pass Test Equation: (ReportValue >= LowLimit) AND (ReportValue <= HighLimit)

(CCV)

El	Units	Defined Conc	Low Limit(%)	High Limit(%)
Ag	ug/L	1000.00000	90.0	110.0
Al	ug/L	5000.00000	90.0	110.0
As	ug/L	1000.00000	90.0	110.0
B	ug/L	1000.00000	90.0	110.0
Ba	ug/L	1000.00000	90.0	110.0
Be	ug/L	1000.00000	90.0	110.0
Ca	ug/L	20000.00000	90.0	110.0
Cd	ug/L	1000.00000	90.0	110.0
Co	ug/L	1000.00000	90.0	110.0
Cr	ug/L	1000.00000	90.0	110.0
Cu	ug/L	1000.00000	90.0	110.0
Fe	ug/L	5000.00000	90.0	110.0
K	ug/L	20000.00000	90.0	110.0
Li	ug/L	5000.00000	90.0	110.0
Mg	ug/L	20000.00000	90.0	110.0
Mn	ug/L	1000.00000	90.0	110.0
Mo	ug/L	1000.00000	90.0	110.0
Na	ug/L	20000.00000	90.0	110.0
Ni	ug/L	1000.00000	90.0	110.0
Pb	ug/L	1000.00000	90.0	110.0
Sb	ug/L	1000.00000	90.0	110.0
Se	ug/L	1000.00000	90.0	110.0
Si	ug/L	1000.00000	90.0	110.0
Sn	ug/L	1000.00000	90.0	110.0
Sr	ug/L	1000.00000	90.0	110.0
Ti	ug/L	1000.00000	90.0	110.0
Tl	ug/L	1000.00000	90.0	110.0
V	ug/L	1000.00000	90.0	110.0
Zn	ug/L	1000.00000	90.0	110.0

Initial Calib Verif

Report Equation: (MeasuredConc / ICVDefined) * 100

Pass Test Equation: (ReportValue >= LowLimit) AND (ReportValue <= HighLimit)

(ICV)

El	Units	Defined Conc	Low Limit(%)	High Limit(%)
Ag	ug/L	1000.00000	90.0	110.0
Al	ug/L	1000.00000	90.0	110.0
As	ug/L	1000.00000	90.0	110.0
B	ug/L	1000.00000	90.0	110.0
Ba	ug/L	1000.00000	90.0	110.0
Be	ug/L	1000.00000	90.0	110.0
Ca	ug/L	10000.00000	90.0	110.0
Cd	ug/L	1000.00000	90.0	110.0
Co	ug/L	1000.00000	90.0	110.0

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El	Units	Defined Conc	Low Limit(%)	High Limit(%)
Cr	ug/L	1000.00000	90.0	110.0
Cu	ug/L	1000.00000	90.0	110.0
Fe	ug/L	1000.00000	90.0	110.0
K	ug/L	10000.00000	90.0	110.0
Li	ug/L	10000.00000	90.0	110.0
Mg	ug/L	10000.00000	90.0	110.0
Mn	ug/L	1000.00000	90.0	110.0
Mo	ug/L	1000.00000	90.0	110.0
Na	ug/L	10000.00000	90.0	110.0
Ni	ug/L	1000.00000	90.0	110.0
Pb	ug/L	1000.00000	90.0	110.0
Sb	ug/L	1000.00000	90.0	110.0
Se	ug/L	1000.00000	90.0	110.0
Si	ug/L	500.00000	90.0	110.0
Sn	ug/L	1000.00000	90.0	110.0
Sr	ug/L	1000.00000	90.0	110.0
Ti	ug/L	1000.00000	90.0	110.0
Tl	ug/L	1000.00000	90.0	110.0
V	ug/L	1000.00000	90.0	110.0
Zn	ug/L	1000.00000	90.0	110.0

(IPC)

El	Units	Defined Conc	Low Limit(%)	High Limit(%)
Ag	ug/L	1000.00000	95.0	105.0
Al	ug/L	5000.00000	95.0	105.0
As	ug/L	1000.00000	95.0	105.0
B	ug/L	1000.00000	95.0	105.0
Ba	ug/L	1000.00000	95.0	105.0
Be	ug/L	1000.00000	95.0	105.0
Ca	ug/L	20000.00000	95.0	105.0
Cd	ug/L	1000.00000	95.0	105.0
Co	ug/L	1000.00000	95.0	105.0
Cr	ug/L	1000.00000	95.0	105.0
Cu	ug/L	1000.00000	95.0	105.0
Fe	ug/L	5000.00000	95.0	105.0
K	ug/L	20000.00000	95.0	105.0
Li	ug/L	5000.00000	95.0	105.0
Mg	ug/L	20000.00000	95.0	105.0
Mn	ug/L	1000.00000	95.0	105.0
Mo	ug/L	1000.00000	95.0	105.0
Na	ug/L	20000.00000	95.0	105.0
Ni	ug/L	1000.00000	95.0	105.0
Pb	ug/L	1000.00000	95.0	105.0
Sb	ug/L	1000.00000	95.0	105.0
Se	ug/L	1000.00000	95.0	105.0
Si	ug/L	1000.00000	95.0	105.0
Sn	ug/L	1000.00000	95.0	105.0
Sr	ug/L	1000.00000	95.0	105.0
Ti	ug/L	1000.00000	95.0	105.0
Tl	ug/L	1000.00000	95.0	105.0
V	ug/L	1000.00000	95.0	105.0
Zn	ug/L	1000.00000	95.0	105.0

CRI

Report Equation: (MeasuredConc/CRIDefined) * 100

Pass Test Equation: (ReportValue >= LowLimit) AND (ReportValue <= HighLimit)

(CRI-RL)

El	Units	Defined Conc	Low Limit(%)	High Limit(%)
Ag	ug/L	5.00000	70.0	130.0
Al	ug/L	100.00000	70.0	130.0
As	ug/L	10.00000	70.0	130.0
B	ug/L	10.00000	70.0	130.0
Ba	ug/L	10.00000	70.0	130.0
Be	ug/L	1.00000	70.0	130.0
Ca	ug/L	400.00000	70.0	130.0
Cd	ug/L	1.00000	70.0	130.0
Co	ug/L	10.00000	70.0	130.0
Cr	ug/L	5.00000	70.0	130.0
Cu	ug/L	10.00000	70.0	130.0
Fe	ug/L	100.00000	70.0	130.0
K	ug/L	4000.00000	70.0	130.0
Li	ug/L	100.00000	70.0	130.0
Mg	ug/L	400.00000	70.0	130.0
Mn	ug/L	10.00000	70.0	130.0
Mo	ug/L	10.00000	70.0	130.0
Na	ug/L	2000.00000	70.0	130.0
Ni	ug/L	10.00000	70.0	130.0
Pb	ug/L	5.00000	70.0	130.0
Sb	ug/L	10.00000	70.0	130.0
Se	ug/L	10.00000	70.0	130.0
Si	ug/L	100.00000	70.0	130.0
Sn	ug/L	50.00000	70.0	130.0
Sr	ug/L	20.00000	70.0	130.0
Ti	ug/L	10.00000	70.0	130.0
Tl	ug/L	10.00000	70.0	130.0
V	ug/L	10.00000	70.0	130.0
Zn	ug/L	50.00000	70.0	130.0
Zr	ug/L	10.00000	70.0	130.0

(CRI-MCP)

El	Units	Defined Conc	Low Limit(%)	High Limit(%)
Ag	ug/L	7.00000	70.0	130.0
As	ug/L	50.00000	70.0	130.0
Ba	ug/L	2000.00000	70.0	130.0
Be	ug/L	4.00000	70.0	130.0
Cd	ug/L	5.00000	70.0	130.0
Cr	ug/L	100.00000	70.0	130.0
Ni	ug/L	100.00000	70.0	130.0
Pb	ug/L	15.00000	70.0	130.0
Sb	ug/L	6.00000	70.0	130.0
Se	ug/L	50.00000	70.0	130.0
Tl	ug/L	2.00000	70.0	130.0
V	ug/L	50.00000	70.0	130.0
Zn	ug/L	900.00000	70.0	130.0

Lab Control Sample

Report Equation: (MeasuredConc / LCSDefined) * 100

Pass Test Equation: (ReportValue >= LowLimit) AND (ReportValue <= HighLimit)

(LCS)

El	Units	Defined Conc	Low Limit(%)	High Limit(%)
Ag	ug/L	1000.00000	85.0	115.0
Al	ug/L	5000.00000	85.0	115.0
As	ug/L	1000.00000	85.0	115.0
B	ug/L	1000.00000	85.0	115.0
Ba	ug/L	1000.00000	85.0	115.0
Be	ug/L	1000.00000	85.0	115.0
Ca	ug/L	20000.00000	85.0	115.0
Cd	ug/L	1000.00000	85.0	115.0
Co	ug/L	1000.00000	85.0	115.0
Cr	ug/L	1000.00000	85.0	115.0
Cu	ug/L	1000.00000	85.0	115.0
Fe	ug/L	5000.00000	85.0	115.0
K	ug/L	20000.00000	85.0	115.0
Li	ug/L	5000.00000	85.0	115.0
Mg	ug/L	20000.00000	85.0	115.0
Mn	ug/L	1000.00000	85.0	115.0
Mo	ug/L	1000.00000	85.0	115.0
Na	ug/L	20000.00000	85.0	115.0
Ni	ug/L	1000.00000	85.0	115.0
Pb	ug/L	1000.00000	85.0	115.0
Sb	ug/L	1000.00000	85.0	115.0
Se	ug/L	1000.00000	85.0	115.0
Si	ug/L	1000.00000	85.0	115.0
Sn	ug/L	1000.00000	85.0	115.0
Sr	ug/L	1000.00000	85.0	115.0
Ti	ug/L	1000.00000	85.0	115.0
Tl	ug/L	1000.00000	85.0	115.0
V	ug/L	1000.00000	85.0	115.0
Zn	ug/L	1000.00000	85.0	115.0

(LCSD)

El	Units	Defined Conc	Low Limit(%)	High Limit(%)
Ag	ug/L	1000.00000	85.0	115.0
Al	ug/L	5000.00000	85.0	115.0
As	ug/L	1000.00000	85.0	115.0
B	ug/L	1000.00000	85.0	115.0
Ba	ug/L	1000.00000	85.0	115.0
Be	ug/L	1000.00000	85.0	115.0
Ca	ug/L	20000.00000	85.0	115.0
Cd	ug/L	1000.00000	85.0	115.0
Co	ug/L	1000.00000	85.0	115.0
Cr	ug/L	1000.00000	85.0	115.0
Cu	ug/L	1000.00000	85.0	115.0
Fe	ug/L	5000.00000	85.0	115.0
K	ug/L	20000.00000	85.0	115.0
Li	ug/L	5000.00000	85.0	115.0
Mg	ug/L	20000.00000	85.0	115.0
Mn	ug/L	1000.00000	85.0	115.0
Mo	ug/L	1000.00000	85.0	115.0

El	Units	Defined Conc	Low Limit(%)	High Limit(%)
Na	ug/L	20000.00000	85.0	115.0
Ni	ug/L	1000.00000	85.0	115.0
Pb	ug/L	1000.00000	85.0	115.0
Sb	ug/L	1000.00000	85.0	115.0
Se	ug/L	1000.00000	85.0	115.0
Si	ug/L	1000.00000	85.0	115.0
Sn	ug/L	1000.00000	85.0	115.0
Sr	ug/L	1000.00000	85.0	115.0
Ti	ug/L	1000.00000	85.0	115.0
Tl	ug/L	1000.00000	85.0	115.0
V	ug/L	1000.00000	85.0	115.0
Zn	ug/L	1000.00000	85.0	115.0

Interf Check A

Report Equation: MeasuredConc

Pass Test Equation: ABS(ReportValue) < CRDL

(ICSA)

El

Ag

Al

As

B

Ba

Be

Ca

Cd

Co

Cr

Cu

Fe

K

Li

Mg

Mn

Mo

Na

Ni

Pb

Sb

Se

Si

Sn

Sr

Ti

Tl

V

Zn

Interf Check AB

Report Equation: (MeasuredConc / ICSABDefined) * 100

Pass Test Equation: ((ReportValue >= LowLimit) AND (ReportValue <= HighLimit)) OR (MDL > CRDL)

(ICSAB)

El	Units	Defined Conc	Low Limit(%)	High Limit(%)
Ag	ug/L	600.00000	80.0	120.0

El	Units	Defined Conc	Low Limit(%)	High Limit(%)
Al	ug/L	100000.00000	80.0	120.0
As	ug/L	2000.00000	80.0	120.0
Ba	ug/L	600.00000	80.0	120.0
Be	ug/L	200.00000	80.0	120.0
Ca	ug/L	100000.00000	80.0	120.0
Cd	ug/L	600.00000	80.0	120.0
Co	ug/L	600.00000	80.0	120.0
Cr	ug/L	600.00000	80.0	120.0
Cu	ug/L	600.00000	80.0	120.0
Fe	ug/L	100000.00000	80.0	120.0
K	ug/L	40000.00000	80.0	120.0
Mg	ug/L	100000.00000	80.0	120.0
Mn	ug/L	400.00000	80.0	120.0
Ni	ug/L	600.00000	80.0	120.0
Pb	ug/L	2000.00000	80.0	120.0
Sb	ug/L	1000.00000	80.0	120.0
Se	ug/L	1000.00000	80.0	120.0
Tl	ug/L	2000.00000	80.0	120.0
V	ug/L	600.00000	80.0	120.0
Zn	ug/L	600.00000	80.0	120.0

Cont Calib Blank

Report Equation: MeasuredConc

Pass Test Equation: ABS(ReportValue) <= CRDL

(CCB)

El
 Ag
 Al
 As
 B
 Ba
 Be
 Ca
 Cd
 Co
 Cr
 Cu
 Fe
 K
 Li
 Mg
 Mn
 Mo
 Na
 Ni
 Pb
 Sb
 Se
 Si
 Sn
 Sr
 Ti
 Tl
 V

El

Zn

Initial Calib Blank

Report Equation: MeasuredConc

Pass Test Equation: ABS(ReportValue) <= CRDL

(ICB)**El**

Ag

Al

As

B

Ba

Be

Ca

Cd

Co

Cr

Cu

Fe

K

Li

Mg

Mn

Mo

Na

Ni

Pb

Sb

Se

Si

Sn

Sr

Ti

Tl

V

Zn

DuplicateReport Equation: $100 * \text{ABS}(\text{PrevSampleConc} - \text{MeasuredConc}) / ((\text{PrevSampleConc} + \text{MeasuredConc})/2)$

Pass Test Equation: (ReportValue <= Difference)

(Duplicate)

El	Units	Difference(%)
Ag	ug/L	20
Al	ug/L	20
As	ug/L	20
B	ug/L	20
Ba	ug/L	20
Be	ug/L	20
Ca	ug/L	20
Cd	ug/L	20
Co	ug/L	20
Cr	ug/L	20
Cu	ug/L	20
Fe	ug/L	20

El	Units	Difference(%)
K	ug/L	20
Li	ug/L	20
Mg	ug/L	20
Mn	ug/L	20
Mo	ug/L	20
Na	ug/L	20
Ni	ug/L	20
Pb	ug/L	20
Sb	ug/L	20
Se	ug/L	20
Si	ug/L	20
Sn	ug/L	20
Sr	ug/L	20
Ti	ug/L	20
Tl	ug/L	20
V	ug/L	20
Zn	ug/L	20

Matrix SpikeReport Equation: $100 * (\text{MeasuredConc} - \text{PrevSampleConc}) / \text{MSPKDefined}$ Pass Test Equation: $(\text{ReportValue} \geq \text{LowLimit}) \text{ AND } (\text{ReportValue} \leq \text{HighLimit})$ **(Matrix Spike)**

El	Units	Spike Conc	Low Limit(%)	High Limit(%)
Ag	ug/L	1000.00000	75.0	125.0
Al	ug/L	5000.00000	75.0	125.0
As	ug/L	1000.00000	75.0	125.0
B	ug/L	1000.00000	75.0	125.0
Ba	ug/L	1000.00000	75.0	125.0
Be	ug/L	1000.00000	75.0	125.0
Ca	ug/L	20000.00000	75.0	125.0
Cd	ug/L	1000.00000	75.0	125.0
Co	ug/L	1000.00000	75.0	125.0
Cr	ug/L	1000.00000	75.0	125.0
Cu	ug/L	1000.00000	75.0	125.0
Fe	ug/L	5000.00000	75.0	125.0
K	ug/L	20000.00000	75.0	125.0
Li	ug/L	5000.00000	75.0	125.0
Mg	ug/L	20000.00000	75.0	125.0
Mn	ug/L	1000.00000	75.0	125.0
Mo	ug/L	1000.00000	75.0	125.0
Na	ug/L	20000.00000	75.0	125.0
Ni	ug/L	1000.00000	75.0	125.0
Pb	ug/L	1000.00000	75.0	125.0
Sb	ug/L	1000.00000	75.0	125.0
Se	ug/L	1000.00000	75.0	125.0
Si	ug/L	1000.00000	75.0	125.0
Sn	ug/L	1000.00000	75.0	125.0
Sr	ug/L	1000.00000	75.0	125.0
Ti	ug/L	1000.00000	75.0	125.0
Tl	ug/L	1000.00000	75.0	125.0
V	ug/L	1000.00000	75.0	125.0
Zn	ug/L	1000.00000	75.0	125.0

Matrix Spike Dup

Report Equation: $100 * (\text{MeasuredConc} - \text{PrevSampleConc}) / \text{MSDDefined}$ and $100 * \text{ABS}(\text{PrevSolutionConc} - \text{MeasuredConc}) / ((\text{PrevSolutionConc} + \text{MeasuredConc})/2)$

Pass Test Equation: $(\text{ReportValue} \geq \text{LowLimit})$ AND $(\text{ReportValue} \leq \text{HighLimit})$ and $(\text{ReportValue} \leq \text{Difference})$

(Matrix Spike Dup)

El	Units	Spike Conc	Low Limit(%)	High Limit(%)	Difference(%)
Ag	ug/L	1000.00000	75.0	125.0	20
Al	ug/L	5000.00000	75.0	125.0	20
As	ug/L	1000.00000	75.0	125.0	20
B	ug/L	1000.00000	75.0	125.0	20
Ba	ug/L	1000.00000	75.0	125.0	20
Be	ug/L	1000.00000	75.0	125.0	20
Ca	ug/L	20000.00000	75.0	125.0	20
Cd	ug/L	1000.00000	75.0	125.0	20
Co	ug/L	1000.00000	75.0	125.0	20
Cr	ug/L	1000.00000	75.0	125.0	20
Cu	ug/L	1000.00000	75.0	125.0	20
Fe	ug/L	5000.00000	75.0	125.0	20
K	ug/L	20000.00000	75.0	125.0	20
Li	ug/L	5000.00000	75.0	125.0	20
Mg	ug/L	20000.00000	75.0	125.0	20
Mn	ug/L	1000.00000	75.0	125.0	20
Mo	ug/L	1000.00000	75.0	125.0	20
Na	ug/L	20000.00000	75.0	125.0	20
Ni	ug/L	1000.00000	75.0	125.0	20
Pb	ug/L	1000.00000	75.0	125.0	20
Sb	ug/L	1000.00000	75.0	125.0	20
Se	ug/L	1000.00000	75.0	125.0	20
Si	ug/L	1000.00000	75.0	125.0	20
Sn	ug/L	1000.00000	75.0	125.0	20
Sr	ug/L	1000.00000	75.0	125.0	20
Ti	ug/L	1000.00000	75.0	125.0	20
Tl	ug/L	1000.00000	75.0	125.0	20
V	ug/L	1000.00000	75.0	125.0	20
Zn	ug/L	1000.00000	75.0	125.0	20

Prep Blank

Report Equation: MeasuredConc

Pass Test Equation: $\text{ABS}(\text{ReportValue}) \leq \text{CRDL}$

(RB)**El****IEC Factor Matrix**

Analyte	As 188.980	Co 228.615	Cu 327.395	Ni 216.555
Ca 373.690	0.000000	0.000000	0.000000	0.000000
As 188.980		0.000000	0.000000	0.000000
Ba 493.408	0.000000	0.000000	0.000000	0.000000
Be 313.042	0.008106	-0.000000	0.000000	0.000000
Li 610.365	0.000000	0.000000	-0.000000	0.000000
Mg 279.078	0.000000	0.000000	0.000000	0.000000
Se 196.026	0.000000	0.000000	0.000000	0.000000
Na 330.237	0.000000	0.000000	0.000000	0.000000
Sr 421.552	0.000000	0.000000	0.000000	0.000000
Sb 217.582	0.000000	0.000000	0.000000	0.000000

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Analyte	As 188.980	Co 228.615	Cu 327.395	Ni 216.555
B 249.678	0.000000	0.001491	0.000000	0.000000
Mo 202.032	0.000000	0.000000	0.000000	0.000000
Si 251.611	0.000000	0.000000	0.000000	0.000000
xSn 283.998	0.000000	0.000000	0.000000	0.000000
Ti 336.122	0.000000	0.000000	0.000000	0.000000
Zr 339.198	0.000000	0.000000	0.000000	0.000000
Cd 214.439	0.000000	0.000000	0.000000	-0.000000
Cr 267.716	0.000000	0.000000	0.000000	0.000000
Co 228.615	0.000000		0.000000	0.000299
Pb 220.353	0.000000	0.000000	0.000000	0.000000
Mn 257.610	0.000000	0.000000	0.000000	0.000000
Ni 216.555	0.003946	0.000000	0.000000	
Tl 190.794	0.000000	0.002871	0.000000	0.000000
V 292.401	0.000000	0.000001	0.000000	0.000000
Zn 202.548	0.000000	0.000000	0.008106	0.000000
Ag 338.289	0.000000	0.000000	0.000000	0.001539
Al 237.312	0.000000	0.046811	0.000000	0.000000
Cu 327.395	0.000000	0.000280		0.000000
Si 288.158	0.000000	0.000000	0.000000	0.000000
Fe 273.955	0.000000	0.000000	0.000000	0.000000
xK 769.897	0.000000	0.000000	0.000000	0.000000
xK 766.491	0.000000	0.000000	0.000000	0.000000
K 404.721	0.000000	0.000000	0.000000	0.000000
Sn 189.925	0.000000	0.000000	0.000000	0.000000
xMg 279.800	0.000000	0.000000	0.000000	0.000000
Analyte	V 292.401	Cd 214.439	Cr 267.716	Mn 257.610
Ca 373.690	0.000000	0.000000	0.000000	0.000000
As 188.980	0.000000	0.000000	0.000299	0.000000
Ba 493.408	0.000000	0.000000	0.000000	0.000000
Be 313.042	0.000270	0.000000	-0.000000	0.000000
Li 610.365	0.000000	0.000000	0.000000	0.000000
Mg 279.078	0.000000	0.000000	0.000000	0.000000
Se 196.026	0.000000	0.000000	0.000000	0.000671
Na 330.237	0.000000	0.000000	0.000000	0.000000
Sr 421.552	0.000000	0.000000	0.000000	0.000000
Sb 217.582	0.000000	0.000003	0.000000	0.000000
B 249.678	0.000000	0.000000	0.000396	0.000000
Mo 202.032	0.000000	0.000000	0.000000	0.000000
Si 251.611	0.000000	0.000000	0.000000	0.000000
xSn 283.998	0.000000	0.000000	0.000000	0.000000
Ti 336.122	0.000000	0.000000	0.000000	0.000000
Zr 339.198	0.000000	0.000000	0.000000	0.000000
Cd 214.439	0.000000		0.000000	0.000000
Cr 267.716	0.000000	0.000000		0.000000
Co 228.615	0.000000	0.000000	0.000000	0.000000
Pb 220.353	0.000000	0.000000	0.000000	0.000000
Mn 257.610	0.000000	0.000000	0.000000	
Ni 216.555	0.000000	0.000000	0.000000	0.000000
Tl 190.794	0.001539	0.000000	0.000220	0.000000
V 292.401		0.000000	0.000000	0.000000
Zn 202.548	0.000000	0.000000	0.000000	0.000000
Ag 338.289	-0.000259	0.000000	0.001069	0.000000
Al 237.312	-0.000347	0.000000	0.000000	0.000000
Cu 327.395	0.000000	0.000000	0.000000	0.000000

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Analyte	V 292.401	Cd 214.439	Cr 267.716	Mn 257.610
Si 288.158	0.000000	0.000000	0.000000	0.000000
Fe 273.955	0.000000	0.000000	0.000749	0.000000
xK 769.897	0.000000	0.000000	0.000000	0.000000
xK 766.491	0.000000	0.000000	0.000000	0.000000
K 404.721	0.000000	0.000000	0.000000	0.000000
Sn 189.925	0.000000	0.000000	0.000000	0.000000
xMg 279.800	0.000000	0.000000	0.000000	0.000000
Analyte	Sb 217.582	Mo 202.032	Si 251.611	Si 288.158
Ca 373.690	0.000000	0.000000	0.000000	0.000000
As 188.980	0.000000	0.000000	0.000000	0.000000
Ba 493.408	0.000000	0.000000	0.000000	0.000000
Be 313.042	-0.000000	0.000000	0.000000	0.000000
Li 610.365	0.000000	0.001138	0.000000	0.000000
Mg 279.078	0.000000	0.000000	0.000000	0.000000
Se 196.026	0.000000	0.000000	0.000000	0.000000
Na 330.237	0.000000	0.000000	0.000000	0.000000
Sr 421.552	0.000000	0.000000	0.000000	0.000000
Sb 217.582		0.000000	0.000000	0.000000
B 249.678	0.000000	0.000000	0.001138	0.001138
Mo 202.032	0.000000		0.000000	0.000000
Si 251.611	0.001760	0.016695		
xSn 283.998	0.000000	0.000000	0.000000	0.000000
Ti 336.122	0.000000	0.000000	0.000000	0.000000
Zr 339.198	0.000000	0.000138	0.000138	0.000138
Cd 214.439	-0.000000	0.000000	0.000000	0.000000
Cr 267.716	0.000000	0.000000	0.000000	0.000000
Co 228.615	0.000000	0.000000	0.000000	0.000000
Pb 220.353	0.000000	0.000000	0.000000	0.000000
Mn 257.610	-0.000007	0.000000	0.000000	0.000000
Ni 216.555	0.000000	0.000000	0.000000	0.000000
Tl 190.794	0.000000	0.000000	0.000000	0.000000
V 292.401	0.000000	0.000000	0.000000	0.000000
Zn 202.548	0.000000	0.000000	0.000000	0.000000
Ag 338.289	0.000000	0.000000	0.000000	0.000000
Al 237.312	0.000000	0.000000	0.000000	0.000000
Cu 327.395	0.000000	0.000000	0.000000	0.000000
Si 288.158	0.001794	0.005061		
Fe 273.955	0.000000	0.000000	0.000000	0.000000
xK 769.897	0.000000	0.000000	0.000000	0.000000
xK 766.491	0.000000	0.000000	0.000000	0.000000
K 404.721	0.000000	0.000000	0.000000	0.000000
Sn 189.925	0.000000	0.000000	0.000000	0.000000
xMg 279.800	0.000000	0.000000	0.000000	0.000000
Analyte	Ti 336.122	Ca 373.690	Fe 273.955	Mg 279.078
Ca 373.690	0.000000		0.007270	0.000000
As 188.980	0.000000	0.000000	0.000000	0.000000
Ba 493.408	0.000000	0.000000	0.000000	0.000000
Be 313.042	0.000000	0.000000	-0.000000	0.000000
Li 610.365	0.000008	0.000000	0.000000	0.000000
Mg 279.078	0.000000	0.000000	0.000122	
Se 196.026	0.000000	0.000000	-0.000009	0.000000
Na 330.237	0.000000	0.000000	0.000000	0.000000
Sr 421.552	0.000000	0.000019	0.000000	0.000000
Sb 217.582	0.000000	0.000000	0.000000	0.000000

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Analyte	Ti 336.122	Ca 373.690	Fe 273.955	Mg 279.078
B 249.678	0.000000	-0.000000	0.000000	0.000000
Mo 202.032	0.000000	0.000000	0.000000	0.000000
Si 251.611	0.008862	0.000000	0.000000	0.000000
xSn 283.998	0.000000	0.000000	0.000000	0.000000
Ti 336.122		0.000000	0.000000	0.000000
Zr 339.198	0.000000	0.000000	0.000000	0.000000
Cd 214.439	0.000000	0.000000	0.000012	0.000000
Cr 267.716	0.000000	0.000000	0.000000	0.000000
Co 228.615	0.001802	-0.000000	0.000033	0.000000
Pb 220.353	0.000000	0.000000	-0.000002	0.000000
Mn 257.610	0.000000	0.000000	0.000000	0.000028
Ni 216.555	0.000000	0.000000	0.000090	0.000000
Tl 190.794	0.000000	0.000003	0.000000	0.000000
V 292.401	0.000663	0.000019	0.000023	0.000000
Zn 202.548	0.000000	0.000000	0.000013	0.000000
Ag 338.289	0.000000	0.000000	0.000002	0.000000
Al 237.312	0.000000	0.000000	0.000000	0.000000
Cu 327.395	0.000000	0.000000	0.000000	0.000000
Si 288.158	0.009020	0.000000	0.000000	0.000000
Fe 273.955	0.000000	0.000000		0.000000
xK 769.897	0.000000	0.000000	0.000000	0.000000
xK 766.491	0.000000	0.000000	0.000000	0.000000
K 404.721	0.000000	0.000000	0.003008	0.000000
Sn 189.925	0.000000	0.000000	0.000000	0.000028
xMg 279.800	0.000487	0.000000	0.000000	
Analyte	Be 313.042	Zn 202.548	Ba 493.408	
Ca 373.690	0.000000	0.000000	0.000000	
As 188.980	0.000000	0.000000	0.000000	
Ba 493.408	0.000000	0.000000		
Be 313.042		0.000000	0.000000	
Li 610.365	0.000000	0.000000	0.000000	
Mg 279.078	0.000000	0.000000	0.000000	
Se 196.026	0.000000	0.000000	0.000000	
Na 330.237	0.000000	-0.558878	0.000000	
Sr 421.552	0.000000	0.000000	0.000000	
Sb 217.582	0.000000	0.000000	0.000000	
B 249.678	0.000000	0.000000	0.000000	
Mo 202.032	0.000000	0.000000	0.000000	
Si 251.611	0.000000	0.000000	0.000000	
xSn 283.998	0.000000	0.000000	0.000000	
Ti 336.122	0.000000	0.000000	0.000000	
Zr 339.198	0.000000	0.000000	0.000000	
Cd 214.439	0.000000	-0.000000	0.000000	
Cr 267.716	0.000000	0.000000	0.000000	
Co 228.615	0.000000	0.000000	0.000000	
Pb 220.353	0.000000	0.000000	0.000000	
Mn 257.610	0.000000	0.000000	0.000000	
Ni 216.555	0.000000	0.000000	0.000000	
Tl 190.794	0.000000	0.000000	0.000000	
V 292.401	0.000000	0.000000	0.000000	
Zn 202.548	0.000000		0.000000	
Ag 338.289	0.000000	0.000000	0.000000	
Al 237.312	0.000000	0.000000	0.000000	
Cu 327.395	0.000000	0.000000	0.000000	

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Analyte	Be 313.042	Zn 202.548	Ba 493.408
Si 288.158	0.000000	0.000000	0.000000
Fe 273.955	0.000000	0.000000	0.000000
xK 769.897	0.000000	0.000000	0.000000
xK 766.491	0.000000	0.000000	0.000000
K 404.721	0.000000	0.000000	0.273376
Sn 189.925	0.000000	0.000000	0.000000
xMg 279.800	0.000000	0.000000	0.000000

e - Locked factor.

i - Factor not calculated due to Interferent error.

a - Factor not calculated due to Analyte error.

Units

Unit Name	Multiplier	Divider
ppb	1	1E9
mg/L	1	1E6
ug/L	1	1E9

Columns

Column
Ag 338.289
Al 237.312
As 188.980
B 249.678
Ba 493.408
Be 313.042
Ca 373.690
Cd 214.439
Co 228.615
Cr 267.716
Cu 327.395
Fe 273.955
K 404.721
Li 610.365
Mg 279.078
Mn 257.610
Mo 202.032
Na 330.237
Ni 216.555
Pb 220.353
Sb 217.582
Se 196.026
Si 251.611
Si 288.158
Sn 189.925
Sr 421.552
Ti 336.122
Tl 190.794
V 292.401
Zn 202.548
Zr 339.198

Display Column Flags

Column	o	QC	S	e	uncal	I	n	a	u	v	x	b	p	m	d
Ag 338.289	x	x	x	x	x	x	x	x	x	x	x	x	x		
Al 237.312	x	x	x	x	x	x	x	x	x	x	x	x	x		
As 188.980	x	x	x	x	x	x	x	x	x	x	x	x	x		
B 249.678	x	x	x	x	x	x	x	x	x	x	x	x	x		
Ba 493.408	x	x	x	x	x	x	x	x	x	x	x	x	x		
Be 313.042	x	x	x	x	x	x	x	x	x	x	x	x	x		
Ca 373.690	x	x	x	x	x	x	x	x	x	x	x	x	x		
Cd 214.439	x	x	x	x	x	x	x	x	x	x	x	x	x		
Co 228.615	x	x	x	x	x	x	x	x	x	x	x	x	x		
Cr 267.716	x	x	x	x	x	x	x	x	x	x	x	x	x		
Cu 327.395	x	x	x	x	x	x	x	x	x	x	x	x	x		
Fe 273.955	x	x	x	x	x	x	x	x	x	x	x	x	x		
K 404.721	x	x	x	x	x	x	x	x	x	x	x	x	x		
Li 610.365	x	x	x	x	x	x	x	x	x	x	x	x	x		
Mg 279.078	x	x	x	x	x	x	x	x	x	x	x	x	x		
Mn 257.610	x	x	x	x	x	x	x	x	x	x	x	x	x		
Mo 202.032	x	x	x	x	x	x	x	x	x	x	x	x	x		
Na 330.237	x	x	x	x	x	x	x	x	x	x	x	x	x		
Ni 216.555	x	x	x	x	x	x	x	x	x	x	x	x	x		
Pb 220.353	x	x	x	x	x	x	x	x	x	x	x	x	x		
Sb 217.582	x	x	x	x	x	x	x	x	x	x	x	x	x		
Se 196.026	x	x	x	x	x	x	x	x	x	x	x	x	x		
Si 251.611	x	x	x	x	x	x	x	x	x	x	x	x	x		
Si 288.158	x	x	x	x	x	x	x	x	x	x	x	x	x		
Sn 189.925	x	x	x	x	x	x	x	x	x	x	x	x	x		
Sr 421.552	x	x	x	x	x	x	x	x	x	x	x	x	x		
Ti 336.122	x	x	x	x	x	x	x	x	x	x	x	x	x		
Tl 190.794	x	x	x	x	x	x	x	x	x	x	x	x	x		
V 292.401	x	x	x	x	x	x	x	x	x	x	x	x	x		
Zn 202.548	x	x	x	x	x	x	x	x	x	x	x	x	x		
Zr 339.198	x	x	x	x	x	x	x	x	x	x	x	x	x		

Blank (Blk)

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Rack 0, Tube 1

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 338.289	0.000000	ug/L	1.868	45.8	4.08179
Al 237.312	0.000000	ug/L	3.453	20.5	16.8703
As 188.980	0.000000	ug/L	1.224	66.4	1.84267
B 249.678	0.000000	ug/L	1.976	6.8	29.0891
Ba 493.408	0.000000	ug/L	15.374	11.5	133.527
Be 313.042	0.000000	ug/L	3.385	4.9	69.1936
Ca 373.690	0.000000	ug/L	2.546	4.1	62.0906
Cd 214.439	0.000000	ug/L	1.391	22.2	6.26921
Co 228.615	0.000000	ug/L	1.089	7.3	14.9720
Cr 267.716	0.000000	ug/L	1.193	6.0	20.0424
Cu 327.395	0.000000	ug/L	0.791	0.8	96.7227
Fe 273.955	0.000000	ug/L	7.311	19.5	37.5140
K 404.721	0.000000	ug/L	4.458	57.4	7.77222
Li 610.365	0.000000	ug/L	3.420	13.4	-25.4453
Mg 279.078	0.000000	ug/L	5.501	38.5	14.2708
Mn 257.610	0.000000	ug/L	3.420	7.5	45.5964
Mo 202.032	0.000000	ug/L	2.678	19.5	13.7194
Na 330.237	0.000000	ug/L	1.894	50.1	3.77905

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Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ni 216.555	0.000000	ug/L	1.910	33.4	5.71417
Pb 220.353	0.000000	ug/L	2.148	27.8	7.72180
Sb 217.582	0.000000	ug/L	1.835	46.6	3.93393
Se 196.026	0.000000	ug/L	0.690	14.4	4.80943
Si 251.611	0.000000	ug/L	1.534	2.2	69.3164
Si 288.158	0.000000	ug/L	4.695	0.8	572.630
Sn 189.925	0.000000	ug/L	1.096	33.3	3.29071
Sr 421.552	0.000000	ug/L	7.644	12.2	62.5254
Ti 336.122	0.000000	ug/L	208.077	98.9	210.479
Tl 190.794	0.000000	ug/L	0.054	3.7	1.47740
V 292.401	0.000000	ug/L	3.984	30.5	13.0532
Zn 202.548	0.000000	ug/L	1.923	3.4	56.1243
Zr 339.198	0.000000	ug/L	1.613	122.7	1.31543

Standard 1 (Std) 12/6/2010, 11:24:57 AM Rack 0, Tube 2

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 338.289	1000.00	ug/L	29.541	0.3	9798.66
Al 237.312	5000.00	ug/L	57.704	0.3	21974.6
As 188.980	1000.00	ug/L	7.233	0.6	1314.31
B 249.678	1000.00	ug/L	148.604	0.5	32806.2
Ba 493.408	1000.00	ug/L	2816.583	0.1	2480633
Be 313.042	1000.00	ug/L	11130.567	0.3	3803673
Ca 373.690	20000.0	ug/L	291.659	0.2	133490
Cd 214.439	1000.00	ug/L	147.730	0.3	49515.2
Co 228.615	1000.00	ug/L	21.020	0.2	11192.5
Cr 267.716	1000.00	ug/L	137.789	0.3	54663.9
Cu 327.395	1000.00	ug/L	1295.199	1.9	68150.7
Fe 273.955	5000.00	ug/L	132.268	0.1	93429.4
K 404.721	20000.0	ug/L	4.707	1.3	365.867
Li 610.365	5000.00	ug/L	934.287	0.2	415830
Mg 279.078	20000.0	ug/L	243.134	0.2	108208
Mn 257.610	1000.00	ug/L	330.860	0.1	338429
Mo 202.032	1000.00	ug/L	108.997	1.1	10262.3
Na 330.237	20000.0	ug/L	5.854	0.2	3602.52
Ni 216.555	1000.00	ug/L	70.237	0.7	10362.2
Pb 220.353	1000.00	ug/L	22.882	0.4	6144.64
Sb 217.582	1000.00	ug/L	0.518	0.0	2117.76
Se 196.026	1000.00	ug/L	1.926	0.3	703.626
Si 251.611	1000.00	ug/L	107.379	1.7	6172.78
Si 288.158	1000.00	ug/L	195.637	1.5	13339.1
Sn 189.925	1000.00	ug/L	6.767	0.3	1938.08
Sr 421.552	1000.00	ug/L	6901.009	0.2	2940624
Ti 336.122	1000.00	ug/L	485.539	0.2	291583
Tl 190.794	1000.00	ug/L	6.102	0.5	1168.33
V 292.401	1000.00	ug/L	88.863	0.2	46326.1
Zn 202.548	1000.00	ug/L	132.745	0.4	33314.7
Zr 339.198	1000.00	ug/L	536.288	0.8	63774.4

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Standard 2 (Std)		12/6/2010, 11:27:50 AM		Rack 0, Tube 3	
Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Al 237.312	25000.0	ug/L	304.183	0.3	104624
Ca 373.690	100000	ug/L	80.212	0.0	612232
Fe 273.955	25000.0	ug/L	1195.010	0.3	429581
K 404.721	100000	ug/L	7.564	0.3	2433.28
Mg 279.078	100000	ug/L	1891.886	0.4	515148
Na 330.237	100000	ug/L	54.298	0.3	20700.1

Ag 338.289 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		4.08179	0.000000	0.000000	-	-
Standard 1		9798.66	1000.00	1000.00	0.000000	0.0

Curve Type: Linear Equation: $y = 9.8 x + 4.1$

Al 237.312 Calibration (ug/L) 12/6/2010, 11:27:50 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		16.8703	0.000000	0.000000	-	-
Standard 1		21974.6	5000.00	5000.00	0.000000	0.0
Standard 2		104624	25000.0	25000.0	0.003906	0.0

Curve Type: Quadratic Equation: $y = 0.0 x^2 + 4.4 x + 16.9$

As 188.980 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.84267	0.000000	0.000000	-	-
Standard 1		1314.31	1000.00	1000.00	0.000000	0.0

Curve Type: Linear Equation: $y = 1.3 x + 1.8$

B 249.678 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		29.0891	0.000000	0.000000	-	-
Standard 1		32806.2	1000.00	1000.000	-0.000061	0.0

Curve Type: Linear Equation: $y = 32.8 x + 29.1$

Ba 493.408 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		133.527	0.000000	0.000000	-	-
Standard 1		2480633	1000.00	1000.000	-0.000061	0.0

Curve Type: Linear Equation: $y = 2480.5 x + 133.5$

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Be 313.042 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		69.1936	0.000000	0.000000	-	-
Standard 1		3803673	1000.00	1000.000	-0.000061	0.0

Curve Type: Linear Equation: $y = 3803.6 x + 69.2$ **Ca 373.690 Calibration (ug/L) 12/6/2010, 11:27:50 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		62.0906	0.000000	0.000000	-	-
Standard 1		133490	20000.0	20000.0	0.000000	0.0
Standard 2		612232	100000	100000	0.007813	0.0

Curve Type: Quadratic Equation: $y = 0.0 x^2 + 6.8 x + 62.1$ **Cd 214.439 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		6.26921	0.000000	0.000000	-	-
Standard 1		49515.2	1000.00	1000.00	0.000000	0.0

Curve Type: Linear Equation: $y = 49.5 x + 6.3$ **Co 228.615 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		14.9720	0.000000	0.000000	-	-
Standard 1		11192.5	1000.00	1000.00	0.000000	0.0

Curve Type: Linear Equation: $y = 11.2 x + 15.0$ **Cr 267.716 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		20.0424	0.000000	0.000000	-	-
Standard 1		54663.9	1000.00	1000.00	0.000000	0.0

Curve Type: Linear Equation: $y = 54.6 x + 20.0$ **Cu 327.395 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		96.7227	0.000000	0.000000	-	-
Standard 1		68150.7	1000.00	1000.00	0.000000	0.0

Curve Type: Linear Equation: $y = 68.1 x + 96.7$

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Fe 273.955 Calibration (ug/L) 12/6/2010, 11:27:50 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		37.5140	0.000000	0.000000	-	-
Standard 1		93429.4	5000.00	5000.00	0.000000	0.0
Standard 2		429581	25000.0	25000.0	0.007813	0.0

Curve Type: Quadratic Equation: $y = 0.0 x^2 + 19.1 x + 37.5$ **K 404.721 Calibration (ug/L) 12/6/2010, 11:27:50 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		7.77222	0.000000	0.000000	-	-
Standard 1		365.867	20000.0	20000.0	0.000000	0.0
Standard 2		2433.28	100000	100000.0	-0.031250	0.0

Curve Type: Quadratic Equation: $y = 0.0 x^2 + 0.0 x + 7.8$ **Li 610.365 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-25.4453	0.000000	0.000000	-	-
Standard 1		415830	5000.00	5000.00	-0.000488	0.0

Curve Type: Linear Equation: $y = 83.2 x + -25.4$ **Mg 279.078 Calibration (ug/L) 12/6/2010, 11:27:50 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		14.2708	0.000000	0.000000	-	-
Standard 1		108208	20000.0	20000.0	0.000000	0.0
Standard 2		515148	100000	100000	0.031250	0.0

Curve Type: Quadratic Equation: $y = 0.0 x^2 + 5.5 x + 14.3$ **Mn 257.610 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		45.5964	0.000000	0.000000	-	-
Standard 1		338429	1000.00	1000.000	-0.000061	0.0

Curve Type: Linear Equation: $y = 338.4 x + 45.6$ **Mo 202.032 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		13.7194	0.000000	0.000000	-	-
Standard 1		10262.3	1000.00	1000.00	0.000000	0.0

Curve Type: Linear Equation: $y = 10.2 x + 13.7$

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Na 330.237 Calibration (ug/L) 12/6/2010, 11:27:50 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		3.77905	0.000000	0.000000	-	-
Standard 1		3602.52	20000.0	20000.0	0.000000	0.0
Standard 2		20700.1	100000	100000.0	-0.015625	0.0

Curve Type: Quadratic Equation: $y = 0.0 x^2 + 0.2 x + 3.8$ **Ni 216.555 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		5.71417	0.000000	0.000000	-	-
Standard 1		10362.2	1000.00	1000.00	0.000000	0.0

Curve Type: Linear Equation: $y = 10.4 x + 5.7$ **Pb 220.353 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		7.72180	0.000000	0.000000	-	-
Standard 1		6144.64	1000.00	1000.00	0.000000	0.0

Curve Type: Linear Equation: $y = 6.1 x + 7.7$ **Sb 217.582 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		3.93393	0.000000	0.000000	-	-
Standard 1		2117.76	1000.00	1000.00	0.000000	0.0

Curve Type: Linear Equation: $y = 2.1 x + 3.9$ **Se 196.026 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		4.80943	0.000000	0.000000	-	-
Standard 1		703.626	1000.00	1000.00	0.000061	0.0

Curve Type: Linear Equation: $y = 0.7 x + 4.8$ **Si 251.611 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		69.3164	0.000000	0.000000	-	-
Standard 1		6172.78	1000.00	1000.00	0.000061	0.0

Curve Type: Linear Equation: $y = 6.1 x + 69.3$ **Si 288.158 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		572.630	0.000000	0.000000	-	-
Standard 1		13339.1	1000.00	1000.00	0.000122	0.0

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Curve Type: Linear Equation: $y = 12.8 x + 572.6$ **Sn 189.925 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		3.29071	0.000000	0.000000	-	-
Standard 1		1938.08	1000.00	1000.000	-0.000122	0.0

Curve Type: Linear Equation: $y = 1.9 x + 3.3$ **Sr 421.552 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		62.5254	0.000000	0.000000	-	-
Standard 1		2940624	1000.00	1000.00	0.000000	0.0

Curve Type: Linear Equation: $y = 2940.6 x + 62.5$ **Ti 336.122 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		210.479	0.000000	0.000000	-	-
Standard 1		291583	1000.00	1000.00	0.000000	0.0

Curve Type: Linear Equation: $y = 291.4 x + 210.5$ **Tl 190.794 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.47740	0.000000	0.000000	-	-
Standard 1		1168.33	1000.00	1000.00	0.000061	0.0

Curve Type: Linear Equation: $y = 1.2 x + 1.5$ **V 292.401 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		13.0532	0.000000	0.000000	-	-
Standard 1		46326.1	1000.00	1000.00	0.000000	0.0

Curve Type: Linear Equation: $y = 46.3 x + 13.1$ **Zn 202.548 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		56.1243	0.000000	0.000000	-	-
Standard 1		33314.7	1000.00	1000.000	-0.000122	0.0

Curve Type: Linear Equation: $y = 33.3 x + 56.1$

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Zr 339.198 Calibration (ug/L) 12/6/2010, 11:24:57 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.31543	0.000000	0.000000	-	-
Standard 1		63774.4	1000.00	1000.00	0.000000	0.0

Curve Type: Linear

Equation: $y = 63.8x + 1.3$

RB (PBLK) 12/6/2010, 11:30:44 AM Rack 0, Tube 4
Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	0.795535	ug/L	0.844363	106.1	11.8521	-
Al 237.312	8.82263	ug/L	0.308264	3.5	56.0571	-
As 188.980	2.47242	ug/L	1.57926	63.9	5.08763	-
B 249.678	2.19377	ug/L	0.271384	12.4	101.085	-
Ba 493.408	0.974065	ug/L	0.056955	5.8	2549.70	-
Be 313.042	0.805769	ug/L	0.048609	6.0	3220.13	-
Ca 373.690	20.5193	ug/L	1.17016	5.7	201.456	-
Cd 214.439	1.03536	ug/L	0.082850	8.0	57.5254	-
Co 228.615	0.674005	ug/L	0.145315	21.6	22.5006	-
Cr 267.716	1.12773	ug/L	0.114392	10.1	81.6657	-
Cu 327.395	0.857078	ug/L	0.054697	6.4	155.049	-
Fe 273.955	7.55235	ug/L	0.573318	7.6	181.401	-
K 404.721	-50.7349uv	ug/L	496.923	979.5	6.95093	-
Li 610.365	-0.378344uv	ug/L	0.032480	8.6	-56.6836	-
Mg 279.078	16.9459	ug/L	0.005045	0.0	107.032	-
Mn 257.610	0.897453	ug/L	0.060631	6.8	349.417	-
Mo 202.032	1.70612	ug/L	0.341677	20.0	31.2047	-
Na 330.237	20.8781uv	ug/L	37.3802	179.0	7.80859	-
Ni 216.555	0.789273	ug/L	0.043565	5.5	13.9946	-
Pb 220.353	0.728333	ug/L	0.259545	35.6	12.1916	-
Sb 217.582	0.441139uv	ug/L	0.828960	187.9	4.86642	-
Se 196.026	0.487083	ug/L	0.113560	23.3	5.14999	-
Si 251.611	1.08084	ug/L	1.21706	112.6	76.0254	-
Si 288.158	2.01101	ug/L	0.750600	37.3	598.173	-
Sn 189.925	-0.814950uv	ug/L	0.158881	19.5	1.71456	-
Sr 421.552	0.902882	ug/L	0.053277	5.9	2717.14	-
Ti 336.122	-0.412465uv	ug/L	0.016061	3.9	90.2983	-
Tl 190.794	8.57942	ug/L	0.333867	3.9	11.4898	-
V 292.401	1.00671	ug/L	0.034741	3.5	59.6667	-
Zn 202.548	0.882673	ug/L	0.092716	10.5	85.0946	-
Zr 339.198	0.676329	ug/L	0.096098	14.2	44.4905	-

IPC (ICV) 12/6/2010, 11:33:37 AM Rack 0, Tube 5
Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	1001.98	ug/L	4.24942	0.4	9840.99	100.19790
Al 237.312	5017.51	ug/L	20.2796	0.4	22235.9	100.35017
As 188.980	1000.79	ug/L	1.13813	0.1	1315.77	100.07944
B 249.678	992.837	ug/L	13.5005	1.4	32669.7	99.28371
Ba 493.408	1004.35	ug/L	4.89826	0.5	2491423	100.43498
Be 313.042	1004.21	ug/L	4.36849	0.4	3851316	100.42078

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ca 373.690	20020.9	ug/L	50.1493	0.3	133938	100.10426
Cd 214.439	999.583	ug/L	1.85404	0.2	49498.8	99.95826
Co 228.615	998.621	ug/L	3.00046	0.3	11204.7	99.86214
Cr 267.716	998.971	ug/L	2.24963	0.2	54607.7	99.89706
Cu 327.395	1021.24	ug/L	13.8303	1.4	69613.5	102.12375
Fe 273.955	5007.15	ug/L	14.1836	0.3	93574.5	100.14310
K 404.721	20072.1	ug/L	189.353	0.9	373.243	100.36066
Li 610.365	4985.22	ug/L	9.49312	0.2	414705	99.70444
Mg 279.078	19975.8	ug/L	19.3612	0.1	108083	99.87898
Mn 257.610	1000.88	ug/L	2.56115	0.3	338903	100.08815
Mo 202.032	1000.59	ug/L	10.0201	1.0	10268.3	100.05887
Na 330.237	20077.8	ug/L	61.4976	0.3	3513.86	100.38915
Ni 216.555	1000.44	ug/L	1.96237	0.2	10413.4	100.04430
Pb 220.353	999.315	ug/L	2.48476	0.2	6140.40	99.93150
Sb 217.582	1000.98	ug/L	6.63866	0.7	2119.83	100.09790
Se 196.026	1002.50	ug/L	7.02929	0.7	705.859	100.25002
Si 251.611	997.198	ug/L	15.4415	1.5	6336.79	99.71983
Si 288.158	997.294	ug/L	16.5042	1.7	13525.0	99.72936
Sn 189.925	997.547	ug/L	0.321098	0.0	1934.34	99.75471
Sr 421.552	1002.02	ug/L	3.08979	0.3	2947873	100.20232
Ti 336.122	1005.48	ug/L	1.58219	0.2	293181	100.54828
Tl 190.794	1001.40	ug/L	7.78383	0.8	1175.27	100.13988
V 292.401	1001.38	ug/L	2.60327	0.3	46450.5	100.13789
Zn 202.548	998.705	ug/L	1.88732	0.2	33539.5	99.87050
Zr 339.198	1013.67	ug/L	2.82683	0.3	64665.6	-

ICV (ICV)

12/6/2010, 11:36:31 AM

Rack 0, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	1053.75	ug/L	5.60860	0.5	10348.8	105.37472
Al 237.312	1013.56	ug/L	2.81505	0.3	4704.49	101.35587
As 188.980	1037.17	ug/L	1.05893	0.1	1363.52	103.71718
B 249.678	1026.56	ug/L	3.61339	0.4	33765.1	102.65556
Ba 493.408	1025.39	ug/L	4.83335	0.5	2543623	102.53944
Be 313.042	1041.28	ug/L	2.17233	0.2	3993466	104.12809
Ca 373.690	10462.5	ug/L	29.7634	0.3	70613.2	104.62496
Cd 214.439	1045.26	ug/L	1.80963	0.2	51756.8	104.52562
Co 228.615	1028.57	ug/L	3.03170	0.3	11538.8	102.85730
Cr 267.716	1034.38	ug/L	2.45873	0.2	56542.6	103.43811
Cu 327.395	1039.30	ug/L	10.3935	1.0	70843.0	103.92950
Fe 273.955	1035.48	ug/L	3.23412	0.3	19700.9	103.54810
K 404.721	9874.83	ug/L	47.8091	0.5	181.946	98.74826
Li 610.365	10976.8	ug/L	12.7562	0.1	913037	109.76821
Mg 279.078	10414.1	ug/L	19.8936	0.2	56674.3	104.14059
Mn 257.610	1051.32	ug/L	2.90309	0.3	355886	105.13194
Mo 202.032	1039.15	ug/L	2.23655	0.2	10663.5	103.91528
Na 330.237	10022.8	ug/L	1.17115	0.0	1671.70	100.22823
Ni 216.555	1039.83	ug/L	0.121707	0.0	10817.9	103.98312
Pb 220.353	1033.70	ug/L	2.11200	0.2	6351.47	103.37024
Sb 217.582	1056.55	ug/L	1.74239	0.2	2237.29	105.65472
Se 196.026	1033.06	ug/L	10.1183	1.0	727.273	103.30562
Si 251.611	696.773	ug/L	54.8310	7.9	4510.78	139.35471Q
Si 288.158	697.340	ug/L	55.3684	7.9	9705.56	139.46799Q

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Sn 189.925	1054.36	ug/L	3.06985	0.3	2043.79	105.43649
Sr 421.552	1065.52	ug/L	4.70564	0.4	3133971	106.55193
Ti 336.122	1053.33	ug/L	3.55901	0.3	307123	105.33325
Tl 190.794	1027.55	ug/L	0.049805	0.0	1205.92	102.75543
V 292.401	1033.67	ug/L	2.97240	0.3	47932.5	103.36686
Zn 202.548	1021.41	ug/L	4.03557	0.4	34297.4	102.14070
Zr 339.198	1099.45	ug/L	12.7815	1.2	70133.4	-

ICB (ICB) 12/6/2010, 11:39:25 AM Rack 0, Tube 7

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	0.423378uv	ug/L	0.638569	150.8	8.18188	0.42338
Al 237.312	-0.501441uv	ug/L	0.325949	65.0	14.4872	-0.50144
As 188.980	1.16307	ug/L	0.189457	16.3	3.36870	1.16307
B 249.678	11.7545	ug/L	2.10077	17.9	414.538	11.75450
Ba 493.408	0.044679	ug/L	0.003529	7.9	244.354	0.04468
Be 313.042	0.016488	ug/L	0.002515	15.3	177.151	0.01649
Ca 373.690	1.06922	ug/L	0.107148	10.0	68.5535	1.06922
Cd 214.439	0.074894	ug/L	0.017014	22.7	9.96750	0.07489
Co 228.615	-0.079893uv	ug/L	0.141836	177.5	14.0682	-0.07989
Cr 267.716	0.028766uv	ug/L	0.073140	254.3	21.6141	0.02877
Cu 327.395	-0.148811uv	ug/L	0.029898	20.1	86.5813	-0.14881
Fe 273.955	0.414273	ug/L	0.188658	45.5	45.3907	0.41427
K 404.721	-34.5830uv	ug/L	150.069	433.9	7.20630	-34.58296
Li 610.365	0.015091uv	ug/L	0.115887	767.9	-23.3721	0.01509
Mg 279.078	-0.926159uv	ug/L	0.214883	23.2	9.18970	-0.92616
Mn 257.610	0.015010	ug/L	0.017818	118.7	50.6510	0.01501
Mo 202.032	7.46800	ug/L	0.070350	0.9	90.2555	7.46800
Na 330.237	-0.726094uv	ug/L	17.2570	2376.7	4.17188	-0.72609
Ni 216.555	-0.263107uv	ug/L	0.138337	52.6	3.03375	-0.26311
Pb 220.353	0.377123	ug/L	0.235226	62.4	10.0363	0.37712
Sb 217.582	0.441156	ug/L	0.052064	11.8	4.86646	0.44116
Se 196.026	-2.07226uv	ug/L	1.29200	62.3	3.36107	-2.07226
Si 251.611	-1.65160uv	ug/L	1.44641	87.6	59.9857	-1.65160
Si 288.158	-0.452390uv	ug/L	0.677944	149.9	567.134	-0.45239
Sn 189.925	-0.331767uv	ug/L	0.480535	144.8	2.64850	-0.33177
Sr 421.552	0.028871	ug/L	0.004839	16.8	145.760	0.02887
Ti 336.122	-0.357573uv	ug/L	0.027385	7.7	106.292	-0.35757
Tl 190.794	3.79548	ug/L	1.10657	29.2	5.90344	3.79548
V 292.401	0.065229	ug/L	0.086736	133.0	16.0355	0.06523
Zn 202.548	-0.199692uv	ug/L	0.018675	9.4	48.8362	-0.19969
Zr 339.198	0.073915	ug/L	0.020332	27.5	6.15735	-

CRI-RL (CRI) 12/6/2010, 11:42:19 AM Rack 0, Tube 8

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	3.91620	ug/L	0.132807	3.4	42.5907	78.32408
Al 237.312	117.905	ug/L	0.515538	0.4	542.461	117.90498
As 188.980	10.1703	ug/L	1.07339	10.6	15.1929	101.70324
B 249.678	14.9435	ug/L	0.302122	2.0	523.463	149.43503R
Ba 493.408	11.2401	ug/L	0.020746	0.2	28014.6	112.40113

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Be 313.042	0.988990	ug/L	0.001394	0.1	4162.25	98.89904
Ca 373.690	429.109	ug/L	0.087547	0.0	2988.87	107.27737
Cd 214.439	1.05486	ug/L	0.028067	2.7	58.5789	105.48615
Co 228.615	10.4075	ug/L	0.333281	3.2	131.609	104.07469
Cr 267.716	5.43691	ug/L	0.037129	0.7	317.138	108.73817
Cu 327.395	11.2614	ug/L	0.024347	0.2	863.279	112.61437
Fe 273.955	108.044	ug/L	0.382162	0.4	2095.21	108.04369
K 404.721	3497.30	ug/L	30.3667	0.9	65.8682	87.43245
Li 610.365	81.4155	ug/L	0.077264	0.1	6747.32	81.41551
Mg 279.078	426.180	ug/L	0.158434	0.0	2346.79	106.54491
Mn 257.610	11.2220	ug/L	0.024923	0.2	3846.74	112.22023
Mo 202.032	12.5318	ug/L	0.192368	1.5	142.152	125.31825
Na 330.237	1982.91	ug/L	14.6266	0.7	343.766	99.14547
Ni 216.555	10.8881	ug/L	0.256101	2.4	119.020	108.88116
Pb 220.353	4.97186	ug/L	0.585216	11.8	38.2331	99.43729
Sb 217.582	11.3975	ug/L	1.22201	10.7	28.0261	113.97456
Se 196.026	10.1802	ug/L	0.010082	0.1	11.9283	101.80234
Si 251.611	102.747	ug/L	1.03117	1.0	698.482	102.74667
Si 288.158	104.388	ug/L	1.35567	1.3	1907.51	104.38768
Sn 189.925	52.0119	ug/L	0.233236	0.4	103.944	104.02374
Sr 421.552	22.6053	ug/L	0.016832	0.1	66561.6	113.02664
Ti 336.122	10.1442	ug/L	0.094696	0.9	3166.22	101.44185
Tl 190.794	12.2155	ug/L	0.460691	3.8	15.7831	122.15483
V 292.401	10.3593	ug/L	0.139988	1.4	493.725	103.59307
Zn 202.548	54.2482	ug/L	0.010663	0.0	1862.74	108.49635
Zr 339.198	10.1233	ug/L	0.084959	0.8	648.007	101.23341

CRI-MCP (CRI)

12/6/2010, 11:45:13 AM

Rack 0, Tube 9

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	7.18172	ug/L	0.063222	0.9	77.0194	102.59595
Al 237.312	-0.252781uv	ug/L	1.23617	489.0	15.5328	-
As 188.980	49.7619	ug/L	1.52353	3.1	67.1966	99.52376
B 249.678	3.04264	ug/L	0.291867	9.6	130.253	-
Ba 493.408	2078.44	ug/L	0.511858	0.0	5155699	103.92195
Be 313.042	3.77248	ug/L	0.013405	0.4	16002.2	94.31210
Ca 373.690	16.8137	ug/L	0.687460	4.1	175.731	-
Cd 214.439	5.27039	ug/L	0.051575	1.0	267.173	105.40782
Co 228.615	-0.162321uv	ug/L	0.092830	57.2	13.5017	-
Cr 267.716	107.558	ug/L	0.087714	0.1	5897.41	107.55777
Cu 327.395	-0.252624uv	ug/L	0.051536	20.4	79.5186	-
Fe 273.955	0.012806	ug/L	0.058235	454.8	39.3231	-
K 404.721	-276.423	ug/L	78.2206	28.3	12.9238	-
Li 610.365	0.060087	ug/L	0.060476	100.6	-20.2930	-
Mg 279.078	0.190980uv	ug/L	0.621217	325.3	15.3049	-
Mn 257.610	0.032103	ug/L	0.007543	23.5	56.4285	-
Mo 202.032	1.00562	ug/L	0.451764	44.9	24.0256	-
Na 330.237	415.161uv	ug/L	19.6039	4.7	-14.8809	-
Ni 216.555	109.568	ug/L	0.026305	0.0	1142.46	109.56809
Pb 220.353	15.8772	ug/L	0.175688	1.1	105.159	105.84825
Sb 217.582	7.24283	ug/L	0.347297	4.8	19.2440	120.71390
Se 196.026	49.6001	ug/L	0.000572	0.0	39.4706	99.20015
Si 251.611	-0.214398uv	ug/L	0.549561	256.3	68.1132	-

120610tjs@720/725/730/735-ES@Quant@. All Data Report 12/7/2010, 10:04:14 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Si 288.158	1.26419	ug/L	0.573321	45.4	588.744	-
Sn 189.925	-0.327226uv	ug/L	0.000056	0.0	2.65735	-
Sr 421.552	0.006075	ug/L	0.002273	37.4	79.7505	-
Ti 336.122	-0.534208uv	ug/L	0.025848	4.8	54.8254	-
Tl 190.794	3.86901	ug/L	0.516865	13.4	6.11462	193.45027R
V 292.401	51.4878	ug/L	0.100559	0.2	2397.58	102.97559
Zn 202.548	950.688	ug/L	1.37533	0.1	31674.0	105.63197
Zr 339.198	0.049619	ug/L	0.013657	27.5	4.52356	-

ICSA (ICSA)

12/6/2010, 11:48:08 AM

Rack 0, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	0.087825	ug/L	0.107762	122.7	6.93018	0.08783
Al 237.312	108075	ug/L	860.891	0.8	4307088074.63281K	
As 188.980	0.560154	ug/L	0.303480	54.2	2.63885	0.56015
B 249.678	1.49438	ug/L	0.647712	43.3	77.0869	1.49438
Ba 493.408	0.829717	ug/L	0.008034	1.0	2191.64	0.82972
Be 313.042	0.046820	ug/L	0.002703	5.8	330.561	0.04682
Ca 373.690	102527	ug/L	556.244	0.5	6306932527.37500K	
Cd 214.439	0.136712	ug/L	0.037022	27.1	86.2408	0.13671
Co 228.615	-0.378302	ug/L	0.127581	33.7	54.9329	-0.37830
Cr 267.716	0.280516	ug/L	0.074723	26.6	35.9717	0.28052
Cu 327.395	0.079387	ug/L	0.050024	63.0	102.179	0.07939
Fe 273.955	107842	ug/L	498.891	0.5	16979777842.23438K	
K 404.721	848.628	ug/L	230.910	27.2	27.6096	848.62781
Li 610.365	1.44248	ug/L	0.043771	3.0	94.6172	1.44248
Mg 279.078	99985.7	ug/L	491.649	0.5	5151499985.74219K	
Mn 257.610	-0.940708	ug/L	0.017465	1.9	574.861	-0.94071
Mo 202.032	0.364339	ug/L	0.167196	45.9	17.4533	0.36434
Na 330.237	116.618	ug/L	27.2612	23.4	23.9434	116.61751
Ni 216.555	0.191721	ug/L	0.059171	30.9	119.211	0.19172
Pb 220.353	-1.49737uv	ug/L	0.131509	8.8	-2.72876	-1.49737
Sb 217.582	-1.42600uv	ug/L	0.464083	32.5	0.919617	-1.42600
Se 196.026	-3.67878uv	ug/L	0.012197	0.3	1.45839	-3.67878
Si 251.611	-6.74507uv	ug/L	1.15545	17.1	28.0939	-6.74507
Si 288.158	-1.73755uv	ug/L	1.04921	60.4	550.187	-1.73755
Sn 189.925	-1.94430	ug/L	0.057071	2.9	4.32954	-1.94430
Sr 421.552	0.475982	ug/L	0.016928	3.6	7596.14	0.47598
Ti 336.122	-0.313405uv	ug/L	0.009656	3.1	121.087	-0.31340
Tl 190.794	1.38491	ug/L	1.80504	130.3	3.48627	1.38491
V 292.401	-3.36255	ug/L	0.045960	1.4	79.4893	-3.36255
Zn 202.548	3.62708	ug/L	1.10395	30.4	229.668	3.62708
Zr 339.198	1.20015	ug/L	0.030500	2.5	79.3995	-

ICSAB (ICSAB)

12/6/2010, 11:51:03 AM

Rack 0, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	576.419	ug/L	0.175266	0.0	5664.07	96.06989
Al 237.312	108255	ug/L	279.650	0.3	431505	108.25465
As 188.980	1816.18	ug/L	1.05859	0.1	2385.80	90.80898
B 249.678	0.617940	ug/L	0.191025	30.9	79.6075	-

120610tjs@720/725/730/735-ES@Quant@. All Data Report 12/7/2010, 10:04:14 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ba 493.408	544.256	ug/L	1.13450	0.2	1350159	90.70929
Be 313.042	165.947	ug/L	0.343001	0.2	687326	82.97327
Ca 373.690	102215	ug/L	322.341	0.3	628994	102.21477
Cd 214.439	534.293	ug/L	0.507931	0.1	26531.7	89.04877
Co 228.615	534.551	ug/L	0.737663	0.1	6035.88	89.09176
Cr 267.716	532.638	ug/L	0.709006	0.1	29126.0	88.77305
Cu 327.395	574.637	ug/L	6.44027	1.1	39212.5	95.77283
Fe 273.955	107846	ug/L	9.33050	0.0	1698038	107.84576
K 404.721	38784.7	ug/L	7.43843	0.0	771.622	96.96176
Li 610.365	1.49515	ug/L	0.131712	8.8	98.9688	-
Mg 279.078	100898	ug/L	1053.86	1.0	519555	100.89818
Mn 257.610	354.383	ug/L	0.492372	0.1	120815	88.59573
Mo 202.032	0.172622	ug/L	0.192265	111.4	15.4885	-
Na 330.237	12.9985uv	ug/L	15.9255	122.5	-42.7417	-
Ni 216.555	528.794	ug/L	0.094085	0.0	5667.08	88.13230
Pb 220.353	1726.75	ug/L	0.428822	0.0	10603.4	86.33739
Sb 217.582	962.170	ug/L	3.68939	0.4	2037.79	96.21701
Se 196.026	892.574	ug/L	4.93879	0.6	627.963	89.25738
Si 251.611	-8.55945uv	ug/L	1.90434	22.2	28.3422	-
Si 288.158	-3.23522uv	ug/L	0.227757	7.0	555.229	-
Sn 189.925	-1.64803	ug/L	0.846158	51.3	4.94238	-
Sr 421.552	0.468777	ug/L	0.007997	1.7	7558.82	-
Ti 336.122	0.037941uv	ug/L	0.065020	171.4	223.460	-
Tl 190.794	1760.01	ug/L	5.09709	0.3	2058.35	88.00038
V 292.401	540.685	ug/L	0.842926	0.2	25275.8	90.11410
Zn 202.548	507.122	ug/L	2.45485	0.5	17125.3	84.52030
Zr 339.198	2.24322	ug/L	0.187062	8.3	145.943	-

RB (Samp) 12/6/2010, 11:53:57 AM Rack 4, Tube 2

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	-0.160223uv	ug/L	0.054304	33.9	2.46838
Al 237.312	1.47632	ug/L	1.04856	71.0	23.2785
As 188.980	1.24190uv	ug/L	1.93945	156.2	3.47215
B 249.678	1.23369	ug/L	0.050104	4.1	69.6584
Ba 493.408	0.016977	ug/L	0.001502	8.8	175.639
Be 313.042	-0.001569	ug/L	0.002043	130.3	110.620
Ca 373.690	3.15590	ug/L	0.451237	14.3	83.1312
Cd 214.439	0.002455uv	ug/L	0.009464	385.5	6.38553
Co 228.615	-0.084749uv	ug/L	0.084444	99.6	14.0133
Cr 267.716	-0.012300uv	ug/L	0.089083	724.3	19.3702
Cu 327.395	-0.152392uv	ug/L	0.009223	6.1	86.3379
Fe 273.955	5.98454	ug/L	0.611623	10.2	151.515
K 404.721	177.124	ug/L	40.8738	23.1	10.6633
Li 610.365	0.245492	ug/L	0.086430	35.2	-4.96973
Mg 279.078	1.71489	ug/L	0.377322	22.0	23.6525
Mn 257.610	0.016925	ug/L	0.003981	23.5	51.3153
Mo 202.032	0.044115	ug/L	0.047096	106.8	14.1715
Na 330.237	22.2289	ug/L	28.1959	126.8	8.14160
Ni 216.555	-0.155136uv	ug/L	0.302453	195.0	4.16211
Pb 220.353	0.538588	ug/L	0.558436	103.7	11.0271
Sb 217.582	3.16683	ug/L	1.12393	35.5	10.6281
Se 196.026	-0.668149uv	ug/L	0.413200	61.8	4.34224

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Si 251.611	-2.54600uv	ug/L	0.094208	3.7	53.7296
Si 288.158	-1.43012uv	ug/L	0.017877	1.3	554.178
Sn 189.925	-0.430036uv	ug/L	0.184837	43.0	2.45850
Sr 421.552	-0.004181uv	ug/L	0.001295	31.0	48.7188
Ti 336.122	-0.538069uv	ug/L	0.030621	5.7	53.7004
Tl 190.794	4.06437	ug/L	0.810274	19.9	6.21680
V 292.401	-0.063832uv	ug/L	0.075330	118.0	10.0626
Zn 202.548	-0.139976uv	ug/L	0.050794	36.3	50.8196
Zr 339.198	-0.011504uv	ug/L	0.028188	245.0	0.630249

CCV (CCV)

12/6/2010, 11:56:51 AM

Rack 4, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	1000.52	ug/L	7.93618	0.8	9826.59	100.05193
Al 237.312	5004.94	ug/L	34.2712	0.7	22180.9	100.09884
As 188.980	995.530	ug/L	6.49581	0.7	1308.86	99.55297
B 249.678	996.541	ug/L	4.10108	0.4	32790.5	99.65410
Ba 493.408	1001.25	ug/L	6.65075	0.7	2483725	100.12466
Be 313.042	997.773	ug/L	6.32249	0.6	3826677	99.77733
Ca 373.690	19921.6	ug/L	84.3418	0.4	133288	99.60806
Cd 214.439	996.806	ug/L	4.02279	0.4	49361.4	99.68065
Co 228.615	994.454	ug/L	5.23874	0.5	11157.9	99.44536
Cr 267.716	995.317	ug/L	5.37261	0.5	54408.1	99.53168
Cu 327.395	1017.85	ug/L	11.5079	1.1	69382.8	101.78468
Fe 273.955	4989.69	ug/L	30.7077	0.6	93254.7	99.79377
K 404.721	20181.9	ug/L	156.776	0.8	375.374	100.90957
Li 610.365	4949.79	ug/L	24.0768	0.5	411757	98.99583
Mg 279.078	19905.5	ug/L	118.835	0.6	107707	99.52769
Mn 257.610	995.778	ug/L	5.52311	0.6	337176	99.57784
Mo 202.032	997.351	ug/L	14.0350	1.4	10235.1	99.73512
Na 330.237	19996.5	ug/L	35.5818	0.2	3499.05	99.98232
Ni 216.555	992.618	ug/L	9.78016	1.0	10332.1	99.26178
Pb 220.353	995.754	ug/L	4.11174	0.4	6118.54	99.57539
Sb 217.582	1003.97	ug/L	5.28422	0.5	2126.15	100.39674
Se 196.026	997.111	ug/L	11.2539	1.1	702.091	99.71110
Si 251.611	988.990	ug/L	17.2100	1.7	6285.81	98.89898
Si 288.158	985.930	ug/L	17.7386	1.8	13378.8	98.59303
Sn 189.925	994.581	ug/L	3.63985	0.4	1928.60	99.45811
Sr 421.552	998.494	ug/L	5.63743	0.6	2937489	99.84944
Ti 336.122	998.739	ug/L	5.62975	0.6	291216	99.87389
Tl 190.794	996.128	ug/L	3.53985	0.4	1169.11	99.61277
V 292.401	996.971	ug/L	5.91045	0.6	46246.0	99.69711
Zn 202.548	993.209	ug/L	2.09676	0.2	33356.9	99.32090
Zr 339.198	995.024	ug/L	12.5169	1.3	63476.3	-

CCB (CCB)

12/6/2010, 12:08:18 PM

Rack 4, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	-0.370516uv	ug/L	0.150697	40.7	0.406494	-0.37052
Al 237.312	-1.08064uv	ug/L	0.614988	56.9	11.9290	-1.08064
As 188.980	-0.874103uv	ug/L	0.379219	43.4	0.694939	-0.87410

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
B 249.678	1.77276	ug/L	0.129136	7.3	87.3478	1.77276
Ba 493.408	-0.008169uv	ug/L	0.003540	43.3	113.264	-0.00817
Be 313.042	0.015883	ug/L	0.001539	9.7	112.640	0.01588
Ca 373.690	1.50399	ug/L	1.10315	73.3	71.5096	1.50399
Cd 214.439	-0.024899uv	ug/L	0.003197	12.8	5.02681	-0.02490
Co 228.615	0.029937uv	ug/L	0.193752	647.2	15.2919	0.02994
Cr 267.716	-0.043047uv	ug/L	0.129746	301.4	17.6900	-0.04305
Cu 327.395	-0.171447uv	ug/L	0.028792	16.8	85.0422	-0.17145
Fe 273.955	0.351788	ug/L	0.177332	50.4	44.1991	0.35179
K 404.721	284.628	ug/L	324.265	113.9	12.4250	284.62802
Li 610.365	0.230923	ug/L	0.078177	33.9	-6.16602	0.23092
Mg 279.078	0.678471	ug/L	0.499758	73.7	17.9738	0.67847
Mn 257.610	0.018678	ug/L	0.004640	24.8	51.9059	0.01868
Mo 202.032	0.183824	ug/L	0.002919	1.6	15.6033	0.18382
Na 330.237	-2.71179uv	ug/L	17.6628	651.3	3.83508	-2.71179
Ni 216.555	-0.143636uv	ug/L	0.248504	173.0	4.18860	-0.14364
Pb 220.353	0.047396uv	ug/L	0.335567	708.0	8.01282	0.04740
Sb 217.582	0.732145	ug/L	0.019835	2.7	5.48155	0.73214
Se 196.026	-2.15484uv	ug/L	2.57862	119.7	3.30337	-2.15484
Si 251.611	-1.87394uv	ug/L	0.535044	28.6	57.8191	-1.87394
Si 288.158	-0.854419uv	ug/L	1.42020	166.2	561.476	-0.85442
Sn 189.925	-0.492015uv	ug/L	0.466691	94.9	2.33854	-0.49201
Sr 421.552	-0.005066uv	ug/L	0.001026	20.2	46.0005	-0.00507
Ti 336.122	-0.550820uv	ug/L	0.034486	6.3	49.9851	-0.55082
Tl 190.794	1.35283	ug/L	0.204755	15.1	3.05336	1.35283
V 292.401	0.036446uv	ug/L	0.054012	148.2	14.6965	0.03645
Zn 202.548	-0.274088uv	ug/L	0.032215	11.8	46.3496	-0.27409
Zr 339.198	0.161381	ug/L	0.130778	81.0	11.6613	-

ICB (ICB)

12/6/2010, 12:11:13 PM

Rack 1, Tube 1

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	-0.178136uv	ug/L	0.368371	206.8	2.29492	-0.17814
Al 237.312	0.898509	ug/L	0.391940	43.6	20.7042	0.89851
As 188.980	-0.397139uv	ug/L	0.275784	69.4	1.32098	-0.39714
B 249.678	1.02536	ug/L	0.053114	5.2	62.8340	1.02536
Ba 493.408	0.053774	ug/L	0.005053	9.4	266.914	0.05377
Be 313.042	0.039490	ug/L	0.000622	1.6	216.865	0.03949
Ca 373.690	5.35094	ug/L	0.170131	3.2	97.7290	5.35094
Cd 214.439	0.001481uv	ug/L	0.021300	1437.9	6.33325	0.00148
Co 228.615	-0.071405uv	ug/L	0.067051	93.9	14.1612	-0.07141
Cr 267.716	0.031902	ug/L	0.031346	98.3	21.7855	0.03190
Cu 327.395	-0.070216uv	ug/L	0.100626	143.3	91.9297	-0.07022
Fe 273.955	0.752222	ug/L	0.038690	5.1	51.8296	0.75222
K 404.721	-37.6447uv	ug/L	102.621	272.6	7.15625	-37.64471
Li 610.365	0.000677uv	ug/L	0.005828	861.3	-25.3408	0.00068
Mg 279.078	2.23408	ug/L	0.620430	27.8	26.4900	2.23408
Mn 257.610	0.073726	ug/L	0.000046	0.1	70.5487	0.07373
Mo 202.032	-0.064867uv	ug/L	0.136520	210.5	13.0546	-0.06487
Na 330.237	25.0511	ug/L	25.8882	103.3	8.61951	25.05105
Ni 216.555	0.064504uv	ug/L	0.424693	658.4	6.36398	0.06450
Pb 220.353	-0.029896uv	ug/L	0.282436	944.7	7.53848	-0.02990
Sb 217.582	0.237513uv	ug/L	0.354923	149.4	4.43599	0.23751

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Se 196.026	-3.23701uv	ug/L	0.230115	7.1	2.54715	-3.23701
Si 251.611	-1.84130uv	ug/L	0.767882	41.7	57.9885	-1.84130
Si 288.158	-1.23773uv	ug/L	0.488753	39.5	556.560	-1.23773
Sn 189.925	-0.524821uv	ug/L	0.227164	43.3	2.27515	-0.52482
Sr 421.552	0.054068	ug/L	0.000271	0.5	220.138	0.05407
Ti 336.122	-0.493638uv	ug/L	0.054089	11.0	66.6465	-0.49364
Tl 190.794	1.09315	ug/L	0.075532	6.9	2.74986	1.09315
V 292.401	0.001478uv	ug/L	0.130557	8830.8	13.0834	0.00148
Zn 202.548	-0.023492uv	ug/L	0.020255	86.2	54.7138	-0.02349
Zr 339.198	0.135021	ug/L	0.127440	94.4	9.97485	-

ICV K Na Ca Mg 75ppm (Samp) 12/6/2010, 12:14:09 PM Rack 1, Tube 2

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	-0.077675uv	ug/L	0.024023	30.9	3.29114
Al 237.312	9279.41	ug/L	108.872	1.2	40356.2
As 188.980	-0.265288uv	ug/L	0.396187	149.3	1.54971
B 249.678	0.989641	ug/L	0.056224	5.7	60.3900
Ba 493.408	0.262582	ug/L	0.000386	0.1	784.861
Be 313.042	0.096552	ug/L	0.001818	1.9	501.734
Ca 373.690	92739.1	ug/L	1434.41	1.5	572402
Cd 214.439	0.024449	ug/L	0.029049	118.8	9.49689
Co 228.615	0.402707	ug/L	0.055775	13.8	19.1904
Cr 267.716	0.350356	ug/L	0.110868	31.6	39.7311
Cu 327.395	0.415151	ug/L	0.057472	13.8	124.970
Fe 273.955	5.04416	ug/L	0.340668	6.8	133.605
K 404.721	88833.9	ug/L	1103.40	1.2	2083.76
Li 610.365	1.16457	ug/L	0.027564	2.4	71.4648
Mg 279.078	94949.2	ug/L	1450.24	1.5	490675
Mn 257.610	0.623775	ug/L	0.042585	6.8	1064.91
Mo 202.032	-0.024432uv	ug/L	0.141742	580.2	13.4690
Na 330.237	91804.7	ug/L	1044.94	1.1	18750.7
Ni 216.555	0.966943	ug/L	0.090730	9.4	15.7225
Pb 220.353	0.749668	ug/L	0.614092	81.9	12.5162
Sb 217.582	3.43935	ug/L	1.09224	31.8	11.2041
Se 196.026	-2.50175uv	ug/L	0.862545	34.5	3.06248
Si 251.611	-0.956776uv	ug/L	0.916644	95.8	63.4821
Si 288.158	-2.60842uv	ug/L	0.759822	29.1	539.259
Sn 189.925	-1.67548	ug/L	0.166919	10.0	4.62689
Sr 421.552	0.046604	ug/L	0.027845	59.7	5755.33
Ti 336.122	0.445673	ug/L	0.039194	8.8	340.336
Tl 190.794	0.199985	ug/L	0.280028	140.0	2.05602
V 292.401	0.035279	ug/L	0.024930	70.7	99.8804
Zn 202.548	0.040489uv	ug/L	0.489148	1208.1	56.9990
Zr 339.198	0.542765	ug/L	0.013622	2.5	37.3735

ICV Sb 1 ppm (Samp)

12/6/2010, 12:17:02 PM

Rack 1, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	-0.437424uv	ug/L	0.119289	27.3	-0.245605
Al 237.312	-1.37109uv	ug/L	0.460260	33.6	10.6091

120610tjs@720/725/730/735-ES@Quant@. All Data Report 12/7/2010, 10:04:14 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-0.533607uv	ug/L	0.305009	57.2	1.14185
B 249.678	0.517851	ug/L	0.190430	36.8	46.0579
Ba 493.408	-0.015705uv	ug/L	0.002298	14.6	94.5703
Be 313.042	0.012480	ug/L	0.001084	8.7	108.619
Ca 373.690	4.11699	ug/L	0.738380	17.9	89.2144
Cd 214.439	-0.050917uv	ug/L	0.016531	32.5	3.71202
Co 228.615	-0.172215uv	ug/L	0.130743	75.9	13.0336
Cr 267.716	-0.010534uv	ug/L	0.025640	243.4	19.4667
Cu 327.395	-0.225014uv	ug/L	0.039725	17.7	81.3940
Fe 273.955	-0.949010uv	ug/L	0.114702	12.1	19.4161
K 404.721	7.55008uv	ug/L	120.158	1591.5	7.89355
Li 610.365	0.087903uv	ug/L	0.164507	187.1	-18.1064
Mg 279.078	2.66423	ug/L	0.308812	11.6	28.8432
Mn 257.610	-0.039471uv	ug/L	0.011815	29.9	29.6646
Mo 202.032	-0.253296uv	ug/L	0.008764	3.5	11.1235
Na 330.237	11.3864uv	ug/L	27.0428	237.5	6.28149
Ni 216.555	-0.034242uv	ug/L	0.050991	148.9	5.33368
Pb 220.353	-0.037295uv	ug/L	0.389971	1045.7	7.49310
Sb 217.582	1013.52	ug/L	24.0468	2.4	2146.33
Se 196.026	-3.23499uv	ug/L	2.60658	80.6	2.54851
Si 251.611	-1.99844uv	ug/L	1.43501	71.8	68.9198
Si 288.158	-1.15819uv	ug/L	2.48686	214.7	582.952
Sn 189.925	-0.539225uv	ug/L	0.069897	13.0	2.24730
Sr 421.552	0.023682	ug/L	0.000459	1.9	130.703
Ti 336.122	-0.486207uv	ug/L	0.030217	6.2	68.8115
Tl 190.794	1.24634	ug/L	0.130393	10.5	2.92833
V 292.401	-0.048521uv	ug/L	0.034797	71.7	10.7643
Zn 202.548	-0.316981uv	ug/L	0.027060	8.5	44.9115
Zr 339.198	10.7389	ug/L	0.834394	7.8	686.183

CRI-RL B (Samp)

12/6/2010, 12:40:49 PM

Rack 1, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	3.92850	ug/L	0.545647	13.9	42.7122
Al 237.312	119.102	ug/L	0.690394	0.6	547.773
As 188.980	9.37827	ug/L	0.883518	9.4	14.1533
B 249.678	10.2556	ug/L	0.123253	1.2	369.809
Ba 493.408	11.3121	ug/L	0.032157	0.3	28193.2
Be 313.042	0.991227	ug/L	0.000660	0.1	4146.51
Ca 373.690	431.182	ug/L	0.510844	0.1	3002.97
Cd 214.439	1.05786	ug/L	0.006012	0.6	58.7273
Co 228.615	10.3824	ug/L	0.014682	0.1	131.329
Cr 267.716	5.37867	ug/L	0.004443	0.1	313.956
Cu 327.395	11.2089	ug/L	0.100728	0.9	859.703
Fe 273.955	108.037	ug/L	0.163176	0.2	2095.08
K 404.721	3577.59	ug/L	465.995	13.0	67.2324
Li 610.365	81.5499	ug/L	0.037461	0.0	6758.22
Mg 279.078	424.940	ug/L	0.618265	0.1	2340.01
Mn 257.610	11.2631	ug/L	0.017207	0.2	3860.64
Mo 202.032	9.79582	ug/L	0.057183	0.6	114.112
Na 330.237	2000.35	ug/L	12.6651	0.6	346.827
Ni 216.555	10.9951	ug/L	0.062392	0.6	120.096
Pb 220.353	5.81820	ug/L	0.681661	11.7	43.4270

120610tjs@720/725/730/735-ES@Quant@. All Data Report 12/7/2010, 10:04:14 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Sb 217.582	10.4722	ug/L	0.059772	0.6	26.0704
Se 196.026	8.33198	ug/L	1.15249	13.8	10.6367
Si 251.611	102.728	ug/L	1.28010	1.2	698.057
Si 288.158	103.452	ug/L	1.94822	1.9	1895.36
Sn 189.925	52.0177	ug/L	0.374210	0.7	103.955
Sr 421.552	22.6869	ug/L	0.055398	0.2	66801.4
Ti 336.122	10.1746	ug/L	0.069975	0.7	3175.09
Tl 190.794	11.7377	ug/L	0.385233	3.3	15.2254
V 292.401	10.2926	ug/L	0.183309	1.8	490.639
Zn 202.548	54.1409	ug/L	0.067791	0.1	1859.16
Zr 339.198	9.43685	ug/L	0.011069	0.1	604.203

CRI-MCP Tl (Samp) **12/6/2010, 12:43:44 PM** **Rack 1, Tube 5**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	7.34912	ug/L	0.007262	0.1	78.6311
Al 237.312	0.179344	ug/L	0.064242	35.8	17.4534
As 188.980	49.0407	ug/L	1.31213	2.7	66.2496
B 249.678	0.214240	ug/L	0.018229	8.5	37.5116
Ba 493.408	2093.13	ug/L	0.885782	0.0	5192142
Be 313.042	3.76730	ug/L	0.001334	0.0	15960.3
Ca 373.690	18.6783	ug/L	0.115873	0.6	188.439
Cd 214.439	5.15952	ug/L	0.039941	0.8	261.684
Co 228.615	-0.075161uv	ug/L	0.031453	41.8	14.4724
Cr 267.716	106.692	ug/L	0.348747	0.3	5850.10
Cu 327.395	-0.213719uv	ug/L	0.063037	29.5	82.1663
Fe 273.955	0.194869	ug/L	0.076692	39.4	42.7769
K 404.721	-771.550uv	ug/L	195.390	25.3	4.90527
Li 610.365	-0.040141uv	ug/L	0.060426	150.5	-28.7920
Mg 279.078	0.394005uv	ug/L	0.573031	145.4	16.4165
Mn 257.610	0.043396	ug/L	0.007272	16.8	60.2510
Mo 202.032	-0.588211uv	ug/L	0.034566	5.9	7.69109
Na 330.237	484.108uv	ug/L	7.83418	1.6	-1.54187
Ni 216.555	108.940	ug/L	0.826175	0.8	1135.93
Pb 220.353	16.3666	ug/L	0.567797	3.5	108.162
Sb 217.582	7.33344	ug/L	0.365295	5.0	19.4355
Se 196.026	46.9026	ug/L	2.40802	5.1	37.5856
Si 251.611	-0.786577uv	ug/L	1.29928	165.2	64.4471
Si 288.158	-0.950279uv	ug/L	1.38838	146.1	560.365
Sn 189.925	-0.446268uv	ug/L	0.463108	103.8	2.42704
Sr 421.552	0.015279	ug/L	0.000139	0.9	106.942
Ti 336.122	-0.522002uv	ug/L	0.038354	7.3	58.3821
Tl 190.794	1.91560	ug/L	1.25115	65.3	3.83475
V 292.401	51.3670	ug/L	0.070791	0.1	2391.99
Zn 202.548	940.101	ug/L	7.76734	0.8	31321.9
Zr 339.198	0.011331uv	ug/L	0.052727	465.3	2.06152

ICV Si 1ppm (Samp) **12/6/2010, 12:46:37 PM** **Rack 1, Tube 6**
Weight: 1 **Volume: 1** **Dilution: 1**

120610tjs@720/725/730/735-ES@Quant@. All Data Report 12/7/2010, 10:04:14 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	-0.078131uv	ug/L	0.038441	49.2	3.27454
Al 237.312	-0.436010uv	ug/L	0.461406	105.8	14.7749
As 188.980	-0.016833uv	ug/L	1.38042	8200.9	1.82008
B 249.678	0.089288	ug/L	0.065973	73.9	71.2356
Ba 493.408	0.076366	ug/L	0.015866	20.8	322.953
Be 313.042	0.008533	ug/L	0.005080	59.5	110.632
Ca 373.690	0.588583	ug/L	0.139957	23.8	65.1775
Cd 214.439	-0.029483uv	ug/L	0.016531	56.1	4.79868
Co 228.615	-0.077750uv	ug/L	0.207978	267.5	14.0894
Cr 267.716	-0.060714uv	ug/L	0.049098	80.9	16.7246
Cu 327.395	-0.214543uv	ug/L	0.075792	35.3	82.1077
Fe 273.955	-1.14245uv	ug/L	0.322270	28.2	15.7299
K 404.721	180.135	ug/L	199.061	110.5	10.7139
Li 610.365	0.128139	ug/L	0.026618	20.8	-14.8018
Mg 279.078	-0.347871uv	ug/L	0.289212	83.1	12.3540
Mn 257.610	-0.064696uv	ug/L	0.008467	13.1	23.6862
Mo 202.032	-0.643965uv	ug/L	0.137982	21.4	7.11970
Na 330.237	8.58118	ug/L	6.94668	81.0	5.80505
Ni 216.555	0.130840	ug/L	0.021824	16.7	7.06400
Pb 220.353	0.055896uv	ug/L	0.299194	535.3	8.06500
Sb 217.582	0.201124uv	ug/L	0.601818	299.2	4.35907
Se 196.026	-3.58054uv	ug/L	0.727570	20.3	2.30703
Si 251.611	1000.29	ug/L	1.57265	0.2	6174.38
Si 288.158	1000.61	ug/L	4.73301	0.5	13346.6
Sn 189.925	-0.870693uv	ug/L	0.323952	37.2	1.60583
Sr 421.552	-0.002653uv	ug/L	0.000426	16.1	53.0361
Ti 336.122	-0.499263uv	ug/L	0.015726	3.1	65.0076
Tl 190.794	0.804754	ug/L	0.554042	68.8	2.41317
V 292.401	-0.009708uv	ug/L	0.084801	873.5	12.5576
Zn 202.548	-0.417770uv	ug/L	0.058672	14.0	41.5678
Zr 339.198	14.0840	ug/L	1.05145	7.5	908.762

CCV (CCV)

12/6/2010, 4:20:28 PM

Rack 4, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	1011.17	ug/L	1.13403	0.1	9930.65	101.11738
Al 237.312	5109.98	ug/L	13.3428	0.3	22635.4	102.19952
As 188.980	991.006	ug/L	4.55161	0.5	1302.92	99.10059
B 249.678	1000.43	ug/L	8.77600	0.9	32919.4	100.04333
Ba 493.408	1029.67	ug/L	0.793596	0.1	2554237	102.96733
Be 313.042	1002.15	ug/L	4.42714	0.4	3843182	100.21465
Ca 373.690	20001.2	ug/L	4.06448	0.0	133810	100.00623
Cd 214.439	987.586	ug/L	1.05574	0.1	48904.9	98.75864
Co 228.615	992.784	ug/L	0.620186	0.1	11139.7	99.27835
Cr 267.716	994.433	ug/L	1.28690	0.1	54359.8	99.44331
Cu 327.395	1032.07	ug/L	28.1444	2.7	70350.7	103.20717
Fe 273.955	5014.24	ug/L	4.53715	0.1	93704.0	100.28478
K 404.721	21297.7	ug/L	307.852	1.4	397.470	106.48835
Li 610.365	4938.18	ug/L	16.3543	0.3	410792	98.76357
Mg 279.078	19750.9	ug/L	10.1674	0.1	106881	98.75447
Mn 257.610	1001.40	ug/L	2.33832	0.2	339075	100.13951
Mo 202.032	998.072	ug/L	12.5729	1.3	10242.5	99.80715
Na 330.237	20233.4	ug/L	5.94135	0.0	3545.78	101.16703

120610tjs@720/725/730/735-ES@Quant@. All Data Report 12/7/2010, 10:04:14 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ni 216.555	983.860	ug/L	1.27572	0.1	10241.3	98.38597
Pb 220.353	993.207	ug/L	0.922683	0.1	6102.91	99.32069
Sb 217.582	1011.80	ug/L	2.63965	0.3	2142.70	101.17998
Se 196.026	997.338	ug/L	5.39743	0.5	702.250	99.73380
Si 251.611	1024.26	ug/L	13.3381	1.3	6502.89	102.42588
Si 288.158	1015.02	ug/L	13.9009	1.4	13753.2	101.50181
Sn 189.925	988.876	ug/L	2.90218	0.3	1917.55	98.88756
Sr 421.552	1016.26	ug/L	2.06258	0.2	2989723	101.62556
Ti 336.122	1018.95	ug/L	6.61048	0.6	297104	101.89462
Tl 190.794	994.617	ug/L	2.02788	0.2	1167.34	99.46169
V 292.401	1006.22	ug/L	2.33599	0.2	46675.1	100.62207
Zn 202.548	974.011	ug/L	2.86291	0.3	32719.4	97.40108
Zr 339.198	950.220	ug/L	33.0578	3.5	60619.4	-

CCB (CCB)

12/6/2010, 4:23:22 PM

Rack 4, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	-0.143909uv	ug/L	0.054833	38.1	2.63049	-0.14391
Al 237.312	0.287330	ug/L	0.007868	2.7	17.9656	0.28733
As 188.980	0.110215uv	ug/L	0.552037	500.9	1.98701	0.11022
B 249.678	12.5802	ug/L	1.87157	14.9	441.652	12.58020
Ba 493.408	0.080234	ug/L	0.003976	5.0	332.548	0.08023
Be 313.042	0.062429	ug/L	0.001616	2.6	319.693	0.06243
Ca 373.690	1.27448	ug/L	0.307120	24.1	70.1217	1.27448
Cd 214.439	0.098671	ug/L	0.015198	15.4	11.1467	0.09867
Co 228.615	-0.232127uv	ug/L	0.043251	18.6	12.3734	-0.23213
Cr 267.716	0.398658	ug/L	0.069410	17.4	41.8265	0.39866
Cu 327.395	-0.200108uv	ug/L	0.038162	19.1	83.0879	-0.20011
Fe 273.955	2.98211	ug/L	0.130861	4.4	94.3193	2.98211
K 404.721	148.593uv	ug/L	309.316	208.2	10.2007	148.59270
Li 610.365	0.078114	ug/L	0.080867	103.5	-18.2012	0.07811
Mg 279.078	1.48326	ug/L	0.092762	6.3	22.3818	1.48326
Mn 257.610	0.097243	ug/L	0.001769	1.8	78.4961	0.09724
Mo 202.032	6.73788	ug/L	0.699518	10.4	82.7729	6.73788
Na 330.237	33.1095	ug/L	34.4709	104.1	10.0353	33.10953
Ni 216.555	-0.213365uv	ug/L	0.204435	95.8	3.50955	-0.21337
Pb 220.353	0.496650	ug/L	0.575329	115.8	10.7698	0.49665
Sb 217.582	1.67171	ug/L	1.14218	68.3	7.46762	1.67171
Se 196.026	0.723986	ug/L	0.805618	111.3	5.31516	0.72399
Si 251.611	5.40746	ug/L	0.124784	2.3	103.023	5.40746
Si 288.158	5.91081	ug/L	0.494878	8.4	648.383	5.91081
Sn 189.925	0.281383uv	ug/L	1.05097	373.5	3.83494	0.28138
Sr 421.552	0.075331	ug/L	0.002958	3.9	282.395	0.07533
Ti 336.122	-0.111952uv	ug/L	0.033449	29.9	177.859	-0.11195
Tl 190.794	1.31193	ug/L	0.278521	21.2	3.00504	1.31193
V 292.401	0.097140	ug/L	0.014562	15.0	17.5256	0.09714
Zn 202.548	-0.224811uv	ug/L	0.038943	17.3	47.9859	-0.22481
Zr 339.198	0.458154	ug/L	0.036940	8.1	30.6667	-

120610tjs@720/725/730/735-ES@Quant@. All Data Report 12/7/2010, 10:04:14 AM

MB 360-66700/1-A (Samp)		12/6/2010, 4:40:02 PM		Rack 1, Tube 45	
Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	0.250013uv	ug/L	1.08751	435.0	6.49792
Al 237.312	3.69774	ug/L	0.137344	3.7	33.1027
As 188.980	-0.227159uv	ug/L	0.658538	289.9	1.54437
B 249.678	3.73101	ug/L	0.058241	1.6	152.815
Ba 493.408	0.151669	ug/L	0.001787	1.2	509.742
Be 313.042	0.001375	ug/L	0.001428	103.8	76.9985
Ca 373.690	9.90149	ug/L	0.000989	0.0	129.133
Cd 214.439	-0.017178uv	ug/L	0.012390	72.1	5.41447
Co 228.615	-0.287664uv	ug/L	0.064509	22.4	11.7716
Cr 267.716	0.779582	ug/L	0.031044	4.0	62.6417
Cu 327.395	1.49117	ug/L	0.060120	4.0	198.185
Fe 273.955	7.08282	ug/L	0.921076	13.0	172.451
K 404.721	203.321	ug/L	38.6038	19.0	11.0923
Li 610.365	0.165704	ug/L	0.036382	22.0	-11.6514
Mg 279.078	0.875229	ug/L	0.300423	34.3	19.0569
Mn 257.610	0.163281	ug/L	0.001841	1.1	100.841
Mo 202.032	-0.410107uv	ug/L	0.036137	8.8	9.51640
Na 330.237	45.7962	ug/L	25.7157	56.2	12.1169
Ni 216.555	0.132246uv	ug/L	0.256622	194.0	7.08035
Pb 220.353	-0.400234uv	ug/L	0.281648	70.4	5.26566
Sb 217.582	-0.145339uv	ug/L	0.513473	353.3	3.62671
Se 196.026	-2.20295uv	ug/L	0.077168	3.5	3.26976
Si 251.611	36.4273	ug/L	0.630263	1.7	291.581
Si 288.158	35.5581	ug/L	0.336139	0.9	1026.42
Sn 189.925	0.279148	ug/L	0.057726	20.7	3.83059
Sr 421.552	0.012065	ug/L	0.001352	11.2	96.9272
Ti 336.122	0.620757	ug/L	0.034772	5.6	391.351
Tl 190.794	0.451330uv	ug/L	1.15596	256.1	2.00039
V 292.401	-0.073253uv	ug/L	0.092305	126.0	9.67297
Zn 202.548	0.966319	ug/L	0.038490	4.0	88.0304
Zr 339.198	0.013125	ug/L	0.023605	179.8	2.50391

LCS 360-66700/2-A (Samp)		12/6/2010, 4:42:56 PM		Rack 1, Tube 46	
Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	1029.36	ug/L	0.419068	0.0	10109.1
Al 237.312	5105.13	ug/L	0.244795	0.0	22616.7
As 188.980	984.219	ug/L	0.135863	0.0	1294.02
B 249.678	977.876	ug/L	13.7829	1.4	32181.1
Ba 493.408	1045.97	ug/L	2.53262	0.2	2594668
Be 313.042	999.499	ug/L	0.391187	0.0	3832928
Ca 373.690	20275.0	ug/L	30.5506	0.2	135601
Cd 214.439	987.928	ug/L	1.37982	0.1	48921.9
Co 228.615	1004.11	ug/L	1.34132	0.1	11267.0
Cr 267.716	1009.14	ug/L	0.803436	0.1	55163.7
Cu 327.395	1037.12	ug/L	2.77923	0.3	70694.2
Fe 273.955	5056.68	ug/L	6.78381	0.1	94480.9
K 404.721	20925.6	ug/L	41.7345	0.2	390.220
Li 610.365	4817.90	ug/L	13.5783	0.3	400792
Mg 279.078	19631.2	ug/L	23.5334	0.1	106240

120610tjs@720/725/730/735-ES@Quant@. All Data Report 12/7/2010, 10:04:14 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mn 257.610	1015.01	ug/L	1.44788	0.1	343682
Mo 202.032	1037.73	ug/L	5.85530	0.6	10649.0
Na 330.237	19796.6	ug/L	10.0804	0.1	3464.14
Ni 216.555	997.866	ug/L	7.13265	0.7	10386.1
Pb 220.353	995.766	ug/L	3.08971	0.3	6118.62
Sb 217.582	1005.61	ug/L	0.045187	0.0	2129.62
Se 196.026	983.163	ug/L	2.17151	0.2	692.352
Si 251.611	1032.63	ug/L	14.9513	1.4	6560.09
Si 288.158	1016.49	ug/L	11.3130	1.1	13778.5
Sn 189.925	1010.33	ug/L	1.92840	0.2	1959.06
Sr 421.552	1034.68	ug/L	0.104443	0.0	3043929
Ti 336.122	1050.66	ug/L	2.88384	0.3	306345
Tl 190.794	983.331	ug/L	2.57979	0.3	1154.25
V 292.401	1026.59	ug/L	1.62370	0.2	47619.7
Zn 202.548	975.150	ug/L	1.74830	0.2	32758.9
Zr 339.198	977.788	ug/L	29.1874	3.0	62377.9

LCSD 360-66700/3-A (Samp) 12/6/2010, 4:45:51 PM Rack 1, Tube 47
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	1028.02	ug/L	2.21049	0.2	10096.0
Al 237.312	5102.12	ug/L	2.69792	0.1	22603.4
As 188.980	986.871	ug/L	2.58890	0.3	1297.50
B 249.678	994.734	ug/L	15.0537	1.5	32733.5
Ba 493.408	1046.73	ug/L	3.22971	0.3	2596550
Be 313.042	1001.50	ug/L	2.09698	0.2	3840602
Ca 373.690	20263.6	ug/L	46.3542	0.2	135526
Cd 214.439	988.116	ug/L	2.81380	0.3	48931.1
Co 228.615	1002.68	ug/L	2.33703	0.2	11250.9
Cr 267.716	1011.03	ug/L	2.19624	0.2	55266.8
Cu 327.395	1026.68	ug/L	10.9772	1.1	69984.1
Fe 273.955	5051.79	ug/L	16.4589	0.3	94391.4
K 404.721	20756.9	ug/L	902.180	4.3	386.935
Li 610.365	4797.99	ug/L	22.3892	0.5	399138
Mg 279.078	19606.5	ug/L	50.5374	0.3	106108
Mn 257.610	1016.51	ug/L	2.09206	0.2	344188
Mo 202.032	1048.72	ug/L	6.23509	0.6	10761.6
Na 330.237	19710.6	ug/L	49.2945	0.3	3447.67
Ni 216.555	992.352	ug/L	6.87332	0.7	10329.1
Pb 220.353	993.681	ug/L	2.55359	0.3	6105.82
Sb 217.582	1028.27	ug/L	3.54529	0.3	2177.52
Se 196.026	989.179	ug/L	4.07238	0.4	696.557
Si 251.611	1030.69	ug/L	12.0996	1.2	6549.40
Si 288.158	1016.96	ug/L	15.6413	1.5	13785.2
Sn 189.925	1004.87	ug/L	0.601498	0.1	1948.49
Sr 421.552	1033.44	ug/L	0.127921	0.0	3040258
Ti 336.122	1046.35	ug/L	2.97974	0.3	305089
Tl 190.794	983.036	ug/L	10.6180	1.1	1153.91
V 292.401	1027.15	ug/L	1.62845	0.2	47645.5
Zn 202.548	978.890	ug/L	3.44141	0.4	32881.6
Zr 339.198	1059.30	ug/L	3.15669	0.3	67576.5

120610tjs@720/725/730/735-ES@Quant@. All Data Report 12/7/2010, 10:04:14 AM

360-31308-F-1-A (Samp)		12/6/2010, 4:48:44 PM		Rack 1, Tube 48	
Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	0.818209	ug/L	0.819476	100.2	12.0803
Al 237.312	91.6407	ug/L	0.623024	0.7	423.827
As 188.980	-0.112586uv	ug/L	0.586277	520.7	1.70583
B 249.678	33.4093	ug/L	2.02607	6.1	1222.46
Ba 493.408	26.1306	ug/L	0.002286	0.0	64950.3
Be 313.042	0.020445	ug/L	0.000864	4.2	159.247
Ca 373.690	17267.3	ug/L	15.1406	0.1	115616
Cd 214.439	0.090347	ug/L	0.021299	23.6	11.3124
Co 228.615	-0.039016uv	ug/L	0.251893	645.6	14.8162
Cr 267.716	0.469170	ug/L	0.054159	11.5	45.7893
Cu 327.395	1.92643	ug/L	0.085244	4.4	227.811
Fe 273.955	530.768	ug/L	0.765025	0.1	10128.9
K 404.721	2895.23	ug/L	177.734	6.1	55.8391
Li 610.365	0.680467	ug/L	0.090730	13.3	31.7500
Mg 279.078	3372.03	ug/L	1.96094	0.1	18437.4
Mn 257.610	163.574	ug/L	0.057994	0.0	55426.8
Mo 202.032	5.28534	ug/L	0.235713	4.5	67.8864
Na 330.237	48113.8	ug/L	103.160	0.2	9118.00
Ni 216.555	0.862479	ug/L	0.109554	12.7	15.3018
Pb 220.353	0.673249	ug/L	0.661745	98.3	11.8839
Sb 217.582	2.79602	ug/L	0.338293	12.1	9.84421
Se 196.026	-1.72604uv	ug/L	0.427899	24.8	3.68474
Si 251.611	2521.39	ug/L	56.1487	2.2	15459.3
Si 288.158	2503.39	ug/L	46.8850	1.9	32532.9
Sn 189.925	0.519355	ug/L	0.106937	20.6	4.46715
Sr 421.552	100.474	ug/L	0.093130	0.1	296623
Ti 336.122	3.43947	ug/L	0.040619	1.2	1212.66
Tl 190.794	4.54944	ug/L	1.22021	26.8	6.85374
V 292.401	0.355015	ug/L	0.048331	13.6	47.2808
Zn 202.548	7.06198	ug/L	0.006544	0.1	291.207
Zr 339.198	1.88677	ug/L	0.216785	11.5	145.017

360-31308-A-1-A DU (Samp)		12/6/2010, 4:51:37 PM		Rack 1, Tube 49	
Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	0.602766	ug/L	0.528392	87.7	9.97375
Al 237.312	93.4829	ug/L	0.869539	0.9	431.976
As 188.980	0.969550	ug/L	0.031979	3.3	3.12619
B 249.678	24.6143	ug/L	0.879263	3.6	976.995
Ba 493.408	25.5351	ug/L	0.023169	0.1	63473.3
Be 313.042	0.065077	ug/L	0.002087	3.2	362.023
Ca 373.690	17240.9	ug/L	26.7540	0.2	115442
Cd 214.439	0.092922	ug/L	0.006884	7.4	11.4371
Co 228.615	-0.230015uv	ug/L	0.026671	11.6	12.6833
Cr 267.716	0.742487	ug/L	0.029847	4.0	60.7242
Cu 327.395	2.22178	ug/L	0.162208	7.3	247.907
Fe 273.955	527.814	ug/L	0.761400	0.1	10072.8
K 404.721	2320.96	ug/L	34.7810	1.5	46.2258
Li 610.365	0.731807	ug/L	0.064212	8.8	35.6826
Mg 279.078	3353.39	ug/L	6.48498	0.2	18335.8

120610tjs@720/725/730/735-ES@Quant@. All Data Report 12/7/2010, 10:04:14 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mn 257.610	162.133	ug/L	0.211044	0.1	54938.9
Mo 202.032	2.02234	ug/L	0.232827	11.5	34.4454
Na 330.237	47522.6	ug/L	115.449	0.2	8996.56
Ni 216.555	0.903813	ug/L	0.073790	8.2	15.7699
Pb 220.353	0.738091uv	ug/L	1.05964	143.6	12.2819
Sb 217.582	1.16613	ug/L	0.489278	42.0	6.39893
Se 196.026	-4.79218uv	ug/L	1.15252	24.0	1.54129
Si 251.611	3613.68	ug/L	11.4699	0.3	22125.7
Si 288.158	3582.10	ug/L	3.22324	0.1	46303.9
Sn 189.925	-0.519866uv	ug/L	0.590467	113.6	2.45555
Sr 421.552	100.437	ug/L	0.131358	0.1	296512
Ti 336.122	3.58493	ug/L	0.132823	3.7	1255.04
Tl 190.794	1.71424	ug/L	0.033381	1.9	3.54492
V 292.401	0.367578	ug/L	0.120041	32.7	47.8374
Zn 202.548	6.76529	ug/L	0.050758	0.8	281.409
Zr 339.198	1.17048	ug/L	0.339877	29.0	109.409

360-31308-F-1-B MS (Samp)

12/6/2010, 4:54:33 PM

Rack 1, Tube 50

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	886.891	ug/L	2.54993	0.3	8711.81
Al 237.312	4827.05	ug/L	13.6166	0.3	21394.1
As 188.980	923.644	ug/L	2.54893	0.3	1214.49
B 249.678	929.017	ug/L	1.78909	0.2	30708.1
Ba 493.408	975.899	ug/L	1.04249	0.1	2420850
Be 313.042	921.098	ug/L	3.41361	0.4	3532790
Ca 373.690	36989.8	ug/L	16.7772	0.0	242828
Cd 214.439	907.921	ug/L	2.30871	0.3	44961.0
Co 228.615	918.843	ug/L	3.06058	0.3	10311.7
Cr 267.716	923.624	ug/L	2.83516	0.3	50490.6
Cu 327.395	969.898	ug/L	3.10909	0.3	66118.3
Fe 273.955	5170.34	ug/L	14.7436	0.3	96558.2
K 404.721	24159.2	ug/L	209.007	0.9	454.325
Li 610.365	4642.19	ug/L	0.510305	0.0	386168
Mg 279.078	21382.4	ug/L	51.3288	0.2	115595
Mn 257.610	1092.91	ug/L	1.03675	0.1	370056
Mo 202.032	941.549	ug/L	9.12049	1.0	9663.23
Na 330.237	67382.0	ug/L	58.7285	0.1	13097.2
Ni 216.555	917.422	ug/L	7.94610	0.9	9550.65
Pb 220.353	907.191	ug/L	1.37248	0.2	5575.08
Sb 217.582	913.142	ug/L	4.92403	0.5	1934.16
Se 196.026	923.154	ug/L	2.80926	0.3	650.456
Si 251.611	4449.05	ug/L	2.69377	0.1	27394.8
Si 288.158	4443.16	ug/L	1.33446	0.0	57504.4
Sn 189.925	916.621	ug/L	0.382901	0.0	1777.84
Sr 421.552	1040.83	ug/L	2.21541	0.2	3063022
Ti 336.122	957.129	ug/L	1.24011	0.1	279092
Tl 190.794	896.475	ug/L	8.73737	1.0	1052.53
V 292.401	943.769	ug/L	2.24031	0.2	43796.9
Zn 202.548	908.288	ug/L	3.17171	0.3	30518.0
Zr 339.198	942.001	ug/L	10.0903	1.1	60126.3

120610tjs@720/725/730/735-ES@Quant@. All Data Report 12/7/2010, 10:04:14 AM

360-31308-F-1-A sd (Samp)		12/6/2010, 4:57:39 PM		Rack 1, Tube 51	
Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	0.120158uv	ug/L	0.257419	214.2	5.22107
Al 237.312	18.4991	ug/L	0.118178	0.6	98.8773
As 188.980	1.01056	ug/L	0.211769	21.0	3.17094
B 249.678	17.3614	ug/L	1.07947	6.2	618.008
Ba 493.408	5.53832	ug/L	0.009029	0.2	13871.3
Be 313.042	0.010777	ug/L	0.005171	48.0	151.869
Ca 373.690	3509.45	ug/L	1.60722	0.0	23879.0
Cd 214.439	-0.004009uv	ug/L	0.049906	1244.7	6.18147
Co 228.615	-0.249478uv	ug/L	0.082409	33.0	12.2322
Cr 267.716	0.279342	ug/L	0.045010	16.1	35.3292
Cu 327.395	0.094276	ug/L	0.028558	30.3	103.121
Fe 273.955	110.566	ug/L	0.467955	0.4	2143.15
K 404.721	421.097	ug/L	85.4935	20.3	14.6887
Li 610.365	0.442255	ug/L	0.044983	10.2	11.8408
Mg 279.078	705.813	ug/L	1.08435	0.2	3876.56
Mn 257.610	33.5650	ug/L	0.023430	0.1	11409.8
Mo 202.032	4.36504	ug/L	0.345148	7.9	58.4547
Na 330.237	9775.19	ug/L	32.6574	0.3	1729.33
Ni 216.555	0.021999uv	ug/L	0.075318	342.4	6.11812
Pb 220.353	0.117387uv	ug/L	0.616005	524.8	8.44858
Sb 217.582	6.96663	ug/L	1.06503	15.3	18.6601
Se 196.026	-1.20586uv	ug/L	1.13103	93.8	3.98325
Si 251.611	508.464	ug/L	15.9852	3.1	3173.24
Si 288.158	504.153	ug/L	14.6540	2.9	7009.22
Sn 189.925	-0.723257uv	ug/L	0.459196	63.5	1.92715
Sr 421.552	21.0528	ug/L	0.001961	0.0	62197.2
Ti 336.122	0.374801	ug/L	0.022247	5.9	319.688
Tl 190.794	3.47017	ug/L	1.11049	32.0	5.53765
V 292.401	0.087765	ug/L	0.169457	193.1	20.7538
Zn 202.548	1.26769	ug/L	0.012817	1.0	97.7646
Zr 339.198	1.68378	ug/L	0.181196	10.8	113.465

CCV (CCV)		12/6/2010, 5:00:33 PM		Rack 4, Tube 3		
Weight: 1		Volume: 1		Dilution: 1		
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	1009.34	ug/L	3.23075	0.3	9912.63	100.93406
Al 237.312	5101.61	ug/L	25.3202	0.5	22598.7	102.03226
As 188.980	988.887	ug/L	5.14374	0.5	1300.14	98.88868
B 249.678	988.087	ug/L	13.3740	1.4	32514.5	98.80869
Ba 493.408	1028.23	ug/L	3.91705	0.4	2550646	102.82255
Be 313.042	1001.89	ug/L	4.74142	0.5	3842151	100.18926
Ca 373.690	19911.6	ug/L	43.5672	0.2	133223	99.55776
Cd 214.439	982.963	ug/L	2.18200	0.2	48676.0	98.29627
Co 228.615	989.857	ug/L	4.64764	0.5	11106.9	98.98568
Cr 267.716	991.465	ug/L	4.39965	0.4	54197.6	99.14647
Cu 327.395	1026.13	ug/L	4.35157	0.4	69946.3	102.61292
Fe 273.955	4993.70	ug/L	7.88003	0.2	93328.1	99.87400
K 404.721	21087.3	ug/L	166.184	0.8	393.302	105.43662
Li 610.365	4911.05	ug/L	18.2342	0.4	408536	98.22091
Mg 279.078	19653.4	ug/L	42.8338	0.2	106359	98.26708

120610tjs@720/725/730/735-ES@Quant@. All Data Report 12/7/2010, 10:04:14 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mn 257.610	999.162	ug/L	2.76183	0.3	338319	99.91618
Mo 202.032	1001.97	ug/L	13.7063	1.4	10282.4	100.19682
Na 330.237	20015.9	ug/L	84.0905	0.4	3505.53	100.07938
Ni 216.555	980.770	ug/L	5.00831	0.5	10209.1	98.07699
Pb 220.353	987.885	ug/L	3.39915	0.3	6070.25	98.78847
Sb 217.582	1011.41	ug/L	4.22650	0.4	2141.89	101.14149
Se 196.026	1000.81	ug/L	9.36399	0.9	704.676	100.08107
Si 251.611	1021.96	ug/L	18.3549	1.8	6489.15	102.19588
Si 288.158	1012.00	ug/L	15.8591	1.6	13714.7	101.19964
Sn 189.925	986.457	ug/L	5.79164	0.6	1912.87	98.64571
Sr 421.552	1015.35	ug/L	2.08852	0.2	2987064	101.53535
Ti 336.122	1017.75	ug/L	0.577071	0.1	296756	101.77523
Tl 190.794	993.261	ug/L	2.98397	0.3	1165.75	99.32612
V 292.401	1005.60	ug/L	3.50377	0.3	46646.2	100.55985
Zn 202.548	970.468	ug/L	2.68985	0.3	32600.3	97.04676
Zr 339.198	1035.68	ug/L	1.12851	0.1	66069.3	-

CCB (CCB)

12/6/2010, 5:03:28 PM

Rack 4, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	0.233100	ug/L	0.057882	24.8	6.32520	0.23310
Al 237.312	-0.767830uv	ug/L	0.487728	63.5	13.3307	-0.76783
As 188.980	0.139527uv	ug/L	0.833025	597.0	2.02544	0.13953
B 249.678	18.9679	ug/L	1.93260	10.2	651.060	18.96789
Ba 493.408	0.098130	ug/L	0.003451	3.5	376.939	0.09813
Be 313.042	0.069315	ug/L	0.001103	1.6	346.845	0.06931
Ca 373.690	1.99800	ug/L	0.552604	27.7	74.9532	1.99800
Cd 214.439	0.069106	ug/L	0.012229	17.7	9.68181	0.06911
Co 228.615	0.090130uv	ug/L	0.188191	208.8	15.9722	0.09013
Cr 267.716	0.313290	ug/L	0.046119	14.7	37.1616	0.31329
Cu 327.395	-0.167657uv	ug/L	0.045651	27.2	85.3013	-0.16766
Fe 273.955	1.55675	ug/L	0.035198	2.3	67.1618	1.55675
K 404.721	-145.984uv	ug/L	9.31032	6.4	5.38867	-145.98425
Li 610.365	0.044679	ug/L	0.066885	149.7	-21.0215	0.04468
Mg 279.078	0.900695	ug/L	0.035004	3.9	19.1914	0.90069
Mn 257.610	0.087719	ug/L	0.001714	2.0	75.2650	0.08772
Mo 202.032	6.35119	ug/L	0.562993	8.9	78.8098	6.35119
Na 330.237	55.0409	ug/L	12.7098	23.1	13.8251	55.04093
Ni 216.555	0.044071uv	ug/L	0.160566	364.3	6.17508	0.04407
Pb 220.353	0.119505uv	ug/L	0.273764	229.1	8.45532	0.11950
Sb 217.582	2.82983	ug/L	0.028278	1.0	9.91568	2.82983
Se 196.026	-0.733130uv	ug/L	1.22184	166.7	4.29691	-0.73313
Si 251.611	6.09809	ug/L	0.187957	3.1	107.201	6.09809
Si 288.158	6.55948	ug/L	0.450078	6.9	656.649	6.55948
Sn 189.925	0.046145uv	ug/L	0.366869	795.0	3.37978	0.04614
Sr 421.552	0.083159	ug/L	0.004494	5.4	305.463	0.08316
Ti 336.122	-0.259286uv	ug/L	0.027101	10.5	134.930	-0.25929
Tl 190.794	2.14807	ug/L	0.548693	25.5	3.98166	2.14807
V 292.401	0.165573	ug/L	0.045912	27.7	20.6887	0.16557
Zn 202.548	-0.143484uv	ug/L	0.072507	50.5	50.6999	-0.14348
Zr 339.198	0.738710	ug/L	0.081616	11.0	48.5615	-

120610tjs@720/725/730/735-ES@Quant@. All Data Report 12/7/2010, 10:04:14 AM

360-31308-F-1-A pds (Samp)		12/6/2010, 5:06:22 PM		Rack 1, Tube 52	
Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	954.841	ug/L	1.54045	0.2	9377.51
Al 237.312	4877.44	ug/L	0.896313	0.0	21614.8
As 188.980	937.300	ug/L	2.64086	0.3	1232.42
B 249.678	942.481	ug/L	0.465506	0.0	31114.8
Ba 493.408	983.816	ug/L	0.474613	0.0	2440487
Be 313.042	930.744	ug/L	1.22967	0.1	3569903
Ca 373.690	36041.4	ug/L	67.5121	0.2	236848
Cd 214.439	920.439	ug/L	0.470858	0.1	45580.8
Co 228.615	929.012	ug/L	0.121275	0.0	10425.0
Cr 267.716	934.347	ug/L	0.073110	0.0	51076.6
Cu 327.395	972.230	ug/L	0.920525	0.1	66277.2
Fe 273.955	5187.63	ug/L	5.46558	0.1	96874.3
K 404.721	24238.7	ug/L	363.358	1.5	455.985
Li 610.365	4739.96	ug/L	13.6356	0.3	394299
Mg 279.078	21523.2	ug/L	6.01041	0.0	116346
Mn 257.610	1092.74	ug/L	0.456788	0.0	370000
Mo 202.032	930.660	ug/L	5.91874	0.6	9551.63
Na 330.237	65385.7	ug/L	19.9454	0.0	12661.2
Ni 216.555	921.237	ug/L	8.58791	0.9	9590.74
Pb 220.353	922.211	ug/L	1.28470	0.1	5667.25
Sb 217.582	939.142	ug/L	0.088906	0.0	1989.12
Se 196.026	930.525	ug/L	3.94096	0.4	655.607
Si 251.611	3549.56	ug/L	39.1724	1.1	21903.0
Si 288.158	3556.83	ug/L	36.2138	1.0	46186.9
Sn 189.925	912.450	ug/L	3.22359	0.4	1769.77
Sr 421.552	1042.00	ug/L	0.701582	0.1	3066427
Ti 336.122	940.927	ug/L	0.333010	0.0	274371
Tl 190.794	923.752	ug/L	0.170087	0.0	1084.40
V 292.401	950.753	ug/L	1.08561	0.1	44119.0
Zn 202.548	920.315	ug/L	0.285234	0.0	30918.6
Zr 339.198	949.797	ug/L	1.86660	0.2	60615.1

360-31308-F-2-A (Samp)		12/6/2010, 5:09:16 PM		Rack 1, Tube 53	
Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	0.467747	ug/L	0.445623	95.3	8.64001
Al 237.312	12.3946	ug/L	0.585028	4.7	71.7513
As 188.980	-0.559386uv	ug/L	0.641266	114.6	1.12162
B 249.678	31.7948	ug/L	1.22179	3.8	1241.83
Ba 493.408	24.7945	ug/L	0.019386	0.1	61636.4
Be 313.042	0.022091	ug/L	0.000120	0.5	152.558
Ca 373.690	20686.8	ug/L	31.1030	0.2	138001
Cd 214.439	0.035213	ug/L	0.012709	36.1	8.54390
Co 228.615	-0.265986uv	ug/L	0.071571	26.9	12.1476
Cr 267.716	0.542055	ug/L	0.026288	4.8	49.7933
Cu 327.395	0.111176	ug/L	0.052302	47.0	104.271
Fe 273.955	448.946	ug/L	0.201679	0.0	8575.99
K 404.721	3078.18	ug/L	396.435	12.9	58.9043
Li 610.365	0.766905	ug/L	0.101026	13.2	39.2148
Mg 279.078	3749.71	ug/L	0.860060	0.0	20496.2

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mn 257.610	163.542	ug/L	0.245517	0.2	55419.3
Mo 202.032	7.99073	ug/L	1.19530	15.0	95.6127
Na 330.237	53677.2	ug/L	91.8548	0.2	10273.4
Ni 216.555	0.359756	ug/L	0.111750	31.1	9.97540
Pb 220.353	0.033470	ug/L	0.048848	145.9	7.96661
Sb 217.582	2.16516	ug/L	1.12760	52.1	8.51068
Se 196.026	-3.42473uv	ug/L	0.258756	7.6	2.49822
Si 251.611	4366.62	ug/L	11.7156	0.3	26721.6
Si 288.158	4382.10	ug/L	3.40192	0.1	56517.1
Sn 189.925	0.904866	ug/L	0.314639	34.8	5.23235
Sr 421.552	117.234	ug/L	0.021563	0.0	346122
Ti 336.122	-0.122855uv	ug/L	0.035638	29.0	174.692
Tl 190.794	1.27523	ug/L	0.515312	40.4	3.04557
V 292.401	0.057545	ug/L	0.006546	11.4	36.5525
Zn 202.548	1.91098	ug/L	0.122157	6.4	119.371
Zr 339.198	3.22644	ug/L	0.370934	11.5	247.556

360-31308-F-3-A (Samp)

12/6/2010, 5:12:10 PM

Rack 1, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	-0.215189uv	ug/L	0.189473	88.0	1.95337
Al 237.312	7.86952	ug/L	0.166701	2.1	51.5891
As 188.980	0.694898	ug/L	0.627570	90.3	2.76791
B 249.678	26.0669	ug/L	0.486487	1.9	1019.17
Ba 493.408	26.9689	ug/L	0.106760	0.4	67029.8
Be 313.042	-0.000868	ug/L	0.001553	179.0	103.330
Ca 373.690	20939.4	ug/L	76.2115	0.4	139648
Cd 214.439	-0.002090uv	ug/L	0.044741	2140.5	6.67996
Co 228.615	-0.523803uv	ug/L	0.294673	56.3	9.25449
Cr 267.716	0.348617	ug/L	0.006453	1.9	39.2247
Cu 327.395	2.35690	ug/L	0.022283	0.9	257.097
Fe 273.955	434.899	ug/L	1.24277	0.3	8309.29
K 404.721	2754.01	ug/L	547.496	19.9	53.4795
Li 610.365	0.839954	ug/L	0.049500	5.9	44.6064
Mg 279.078	3321.28	ug/L	15.1477	0.5	18160.6
Mn 257.610	159.031	ug/L	0.640352	0.4	53889.1
Mo 202.032	1.34555	ug/L	0.200922	14.9	27.5093
Na 330.237	44225.1	ug/L	162.991	0.4	8323.36
Ni 216.555	0.669704	ug/L	0.048186	7.2	13.2185
Pb 220.353	0.582932	ug/L	0.140040	24.0	11.3394
Sb 217.582	0.855474uv	ug/L	2.34173	273.7	5.74225
Se 196.026	-4.84373uv	ug/L	1.49856	30.9	1.50449
Si 251.611	3477.60	ug/L	6.53193	0.2	21294.8
Si 288.158	3482.90	ug/L	15.9365	0.5	45037.0
Sn 189.925	0.079495	ug/L	0.175209	220.4	3.61354
Sr 421.552	107.204	ug/L	0.470707	0.4	316644
Ti 336.122	-0.333183uv	ug/L	0.024375	7.3	113.408
Tl 190.794	0.539343	ug/L	0.051051	9.5	2.18685
V 292.401	0.032068	ug/L	0.021978	68.5	35.5720
Zn 202.548	6.05932	ug/L	0.124320	2.1	257.929
Zr 339.198	1.03746	ug/L	0.037952	3.7	99.6523

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360-31308-F-4-A (Samp)		12/6/2010, 5:15:04 PM		Rack 1, Tube 55	
Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	0.879134	ug/L	0.772980	87.9	12.6624
Al 237.312	17.0949	ug/L	0.884575	5.2	92.6611
As 188.980	0.536818	ug/L	0.451085	84.0	2.55845
B 249.678	22.6422	ug/L	0.343943	1.5	917.826
Ba 493.408	21.9900	ug/L	0.089705	0.4	54679.7
Be 313.042	0.002041	ug/L	0.002757	135.1	109.185
Ca 373.690	17762.3	ug/L	64.1216	0.4	118863
Cd 214.439	0.022156	ug/L	0.034553	156.0	7.88838
Co 228.615	-0.171516uv	ug/L	0.119040	69.4	13.2191
Cr 267.716	0.434156	ug/L	0.010054	2.3	43.8791
Cu 327.395	0.360290	ug/L	0.073194	20.3	121.227
Fe 273.955	464.098	ug/L	1.40306	0.3	8863.62
K 404.721	2575.72	ug/L	63.6771	2.5	50.4612
Li 610.365	0.655783	ug/L	0.003670	0.6	29.2373
Mg 279.078	3492.48	ug/L	6.54747	0.2	19094.0
Mn 257.610	126.000	ug/L	0.270074	0.2	42713.4
Mo 202.032	0.819420	ug/L	0.080329	9.8	22.1173
Na 330.237	52501.8	ug/L	139.806	0.3	10027.4
Ni 216.555	0.001918uv	ug/L	0.434398	22649.1	6.33258
Pb 220.353	0.585872	ug/L	0.201652	34.4	11.3499
Sb 217.582	0.545017	ug/L	0.070072	12.9	5.08600
Se 196.026	-2.33828uv	ug/L	2.24524	96.0	3.23766
Si 251.611	3753.29	ug/L	33.5256	0.9	22977.4
Si 288.158	3781.25	ug/L	14.7227	0.4	48845.9
Sn 189.925	-0.361961uv	ug/L	0.600658	165.9	2.76811
Sr 421.552	106.551	ug/L	0.282240	0.3	314523
Ti 336.122	-0.153357uv	ug/L	0.038208	24.9	165.805
Tl 190.794	1.18538	ug/L	0.119477	10.1	2.92997
V 292.401	0.302522	ug/L	0.109541	36.2	45.1110
Zn 202.548	3.80523	ug/L	0.017622	0.5	182.448
Zr 339.198	1.37532	ug/L	0.129505	9.4	123.756

360-31308-F-5-A (Samp)		12/6/2010, 5:17:58 PM		Rack 1, Tube 56	
Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	0.542694	ug/L	0.330741	60.9	9.37683
Al 237.312	83.0056	ug/L	1.48398	1.8	385.439
As 188.980	-0.299764uv	ug/L	0.013071	4.4	1.45738
B 249.678	17.4095	ug/L	0.275328	1.6	748.054
Ba 493.408	18.4333	ug/L	0.048532	0.3	45857.4
Be 313.042	0.017308	ug/L	0.001086	6.3	140.188
Ca 373.690	12704.8	ug/L	30.3662	0.2	85487.9
Cd 214.439	0.020034	ug/L	0.003717	18.6	7.75931
Co 228.615	-0.224065uv	ug/L	0.153870	68.7	12.7063
Cr 267.716	0.827365	ug/L	0.035240	4.3	65.3338
Cu 327.395	2.23602	ug/L	0.021217	0.9	248.876
Fe 273.955	488.994	ug/L	0.766708	0.2	9336.20
K 404.721	2181.97	ug/L	378.652	17.4	43.8774
Li 610.365	0.486817	ug/L	0.050629	10.4	15.1162
Mg 279.078	2635.13	ug/L	6.07946	0.2	14417.7

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mn 257.610	34.0166	ug/L	0.070461	0.2	11580.0
Mo 202.032	0.171261	ug/L	0.082020	47.9	15.4746
Na 330.237	44218.2	ug/L	355.338	0.8	8321.36
Ni 216.555	0.318559	ug/L	0.062180	19.5	9.60898
Pb 220.353	1.70478	ug/L	0.133605	7.8	18.2048
Sb 217.582	0.670736	ug/L	0.079627	11.9	5.35175
Se 196.026	-5.44021uv	ug/L	2.15370	39.6	1.02121
Si 251.611	3799.73	ug/L	1.78020	0.0	23260.9
Si 288.158	3815.85	ug/L	10.6755	0.3	49287.7
Sn 189.925	0.476875	ug/L	0.030705	6.4	4.34744
Sr 421.552	81.8362	ug/L	0.184162	0.2	241527
Ti 336.122	1.85865	ug/L	0.011174	0.6	752.049
Tl 190.794	-0.339689uv	ug/L	0.528821	155.7	1.13017
V 292.401	0.380229	ug/L	0.135932	35.8	43.9208
Zn 202.548	11.4045	ug/L	0.020717	0.2	435.691
Zr 339.198	1.64843	ug/L	0.186371	11.3	141.547

360-31308-F-6-A (Samp)

12/6/2010, 5:20:51 PM

Rack 1, Tube 57

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	0.404843uv	ug/L	0.747917	184.7	8.03589
Al 237.312	41.9854	ug/L	0.534708	1.3	203.223
As 188.980	-0.202825uv	ug/L	0.003436	1.7	1.58420
B 249.678	15.4607	ug/L	0.071883	0.5	677.757
Ba 493.408	20.8375	ug/L	0.020052	0.1	51820.9
Be 313.042	0.019024	ug/L	0.001698	8.9	149.309
Ca 373.690	12203.0	ug/L	6.58700	0.1	82151.5
Cd 214.439	0.018452	ug/L	0.033857	183.5	7.60628
Co 228.615	-0.201819uv	ug/L	0.112596	55.8	12.8878
Cr 267.716	0.606824	ug/L	0.135301	22.3	53.2794
Cu 327.395	2.93769	ug/L	0.058273	2.0	296.627
Fe 273.955	399.972	ug/L	0.251031	0.1	7646.01
K 404.721	2486.45	ug/L	411.022	16.5	48.9653
Li 610.365	0.646172	ug/L	0.039088	6.0	28.3477
Mg 279.078	2572.20	ug/L	2.41601	0.1	14074.1
Mn 257.610	45.5987	ug/L	0.007510	0.0	15498.6
Mo 202.032	-0.050083uv	ug/L	0.091424	182.5	13.2061
Na 330.237	43778.3	ug/L	278.318	0.6	8232.11
Ni 216.555	1.14957	ug/L	0.313322	27.3	18.1082
Pb 220.353	1.95014	ug/L	0.464889	23.8	19.7110
Sb 217.582	0.257054	ug/L	0.151700	59.0	4.47729
Se 196.026	-4.20274uv	ug/L	0.087189	2.1	1.89288
Si 251.611	3637.24	ug/L	43.6190	1.2	22269.0
Si 288.158	3659.95	ug/L	0.261195	0.0	47297.2
Sn 189.925	-0.825754uv	ug/L	0.033457	4.1	1.82391
Sr 421.552	78.9858	ug/L	0.010094	0.0	233113
Ti 336.122	0.597998	ug/L	0.005281	0.9	384.728
Tl 190.794	0.145398uv	ug/L	0.945914	650.6	1.69370
V 292.401	0.176873	ug/L	0.085088	48.1	33.8444
Zn 202.548	11.3462	ug/L	0.104176	0.9	433.886
Zr 339.198	0.433963	ug/L	0.055634	12.8	62.5784

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360-31308-F-7-A (Samp)		12/6/2010, 5:23:45 PM		Rack 1, Tube 58	
Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	-0.018576uv	ug/L	0.237802	1280.2	3.88208
Al 237.312	39.7758	ug/L	1.38572	3.5	193.421
As 188.980	0.350318	ug/L	0.227191	64.9	2.31013
B 249.678	14.1938	ug/L	0.081703	0.6	635.698
Ba 493.408	20.2333	ug/L	0.124146	0.6	50322.3
Be 313.042	0.020094	ug/L	0.001967	9.8	170.295
Ca 373.690	12080.1	ug/L	55.5852	0.5	81334.1
Cd 214.439	0.003853uv	ug/L	0.023367	606.5	6.86945
Co 228.615	-0.171622uv	ug/L	0.019516	11.4	13.2161
Cr 267.716	0.688002	ug/L	0.006437	0.9	57.7145
Cu 327.395	2.38163	ug/L	0.072124	3.0	258.787
Fe 273.955	383.783	ug/L	2.30004	0.6	7338.53
K 404.721	1819.53	ug/L	613.625	33.7	37.8586
Li 610.365	0.580141	ug/L	0.119258	20.6	22.8398
Mg 279.078	2546.61	ug/L	12.5917	0.5	13934.5
Mn 257.610	46.2237	ug/L	0.248897	0.5	15709.9
Mo 202.032	-0.186831uv	ug/L	0.036831	19.7	11.8047
Na 330.237	43841.3	ug/L	259.572	0.6	8244.93
Ni 216.555	0.679494	ug/L	0.169117	24.9	13.2421
Pb 220.353	1.71809	ug/L	0.380596	22.2	18.2869
Sb 217.582	1.00927	ug/L	0.527275	52.2	6.06735
Se 196.026	-3.23802uv	ug/L	1.11929	34.6	2.56750
Si 251.611	3619.35	ug/L	11.7049	0.3	22159.9
Si 288.158	3628.26	ug/L	23.1973	0.6	46892.8
Sn 189.925	0.051921	ug/L	0.002292	4.4	3.52073
Sr 421.552	78.3724	ug/L	0.411930	0.5	231302
Ti 336.122	0.598013	ug/L	0.019654	3.3	384.732
Tl 190.794	0.783312uv	ug/L	1.34748	172.0	2.43795
V 292.401	0.189041	ug/L	0.052029	27.5	34.2654
Zn 202.548	10.9247	ug/L	0.046065	0.4	419.714
Zr 339.198	0.413937	ug/L	0.117987	28.5	61.1716

360-31308-F-7-B MS (Samp)		12/6/2010, 5:26:39 PM		Rack 1, Tube 59	
Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	850.617	ug/L	1.02143	0.1	8355.90
Al 237.312	4642.60	ug/L	6.43854	0.1	20589.4
As 188.980	898.438	ug/L	1.84403	0.2	1181.40
B 249.678	906.890	ug/L	5.73687	0.6	29990.8
Ba 493.408	951.271	ug/L	3.16726	0.3	2359761
Be 313.042	905.662	ug/L	1.92637	0.2	3473283
Ca 373.690	31169.0	ug/L	61.3608	0.2	205909
Cd 214.439	886.639	ug/L	2.60444	0.3	43907.1
Co 228.615	899.248	ug/L	2.16487	0.2	10091.8
Cr 267.716	903.977	ug/L	2.72903	0.3	49417.0
Cu 327.395	941.999	ug/L	6.57168	0.7	64219.3
Fe 273.955	4909.46	ug/L	7.61037	0.2	91784.2
K 404.721	22481.3	ug/L	77.2901	0.3	420.494
Li 610.365	4516.81	ug/L	4.00268	0.1	375737
Mg 279.078	20158.3	ug/L	20.7851	0.1	109058

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mn 257.610	955.805	ug/L	1.76889	0.2	323652
Mo 202.032	917.179	ug/L	8.01050	0.9	9413.46
Na 330.237	62864.5	ug/L	5.65685	0.0	12119.7
Ni 216.555	884.326	ug/L	0.194515	0.0	9206.57
Pb 220.353	886.677	ug/L	0.877453	0.1	5449.17
Sb 217.582	916.928	ug/L	8.93288	1.0	1942.16
Se 196.026	890.080	ug/L	2.07156	0.2	627.274
Si 251.611	4687.55	ug/L	21.1966	0.5	28846.2
Si 288.158	4688.23	ug/L	15.5018	0.3	60628.0
Sn 189.925	895.633	ug/L	1.84765	0.2	1737.17
Sr 421.552	999.171	ug/L	2.37229	0.2	2940176
Ti 336.122	929.617	ug/L	5.63040	0.6	271076
Tl 190.794	868.929	ug/L	5.89345	0.7	1020.26
V 292.401	921.837	ug/L	1.39881	0.2	42774.5
Zn 202.548	889.437	ug/L	1.99090	0.2	29884.5
Zr 339.198	934.034	ug/L	3.62422	0.4	59620.2

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Rack 1, Tube 60

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	0.849110	ug/L	0.440477	51.9	12.3805
Al 237.312	77.2053	ug/L	1.16623	1.5	359.709
As 188.980	0.186930	ug/L	0.161433	86.4	2.09425
B 249.678	24.2231	ug/L	1.28975	5.3	939.266
Ba 493.408	14.6737	ug/L	0.080552	0.5	36531.6
Be 313.042	0.022165	ug/L	0.003540	16.0	172.374
Ca 373.690	9694.81	ug/L	49.6238	0.5	65456.3
Cd 214.439	0.076442	ug/L	0.000829	1.1	10.5132
Co 228.615	-0.062654uv	ug/L	0.105373	168.2	14.5165
Cr 267.716	0.905480	ug/L	0.203363	22.5	69.5833
Cu 327.395	1.31468	ug/L	0.152695	11.6	186.178
Fe 273.955	476.534	ug/L	2.50461	0.5	9099.70
K 404.721	1154.44	ug/L	84.6148	7.3	26.8140
Li 610.365	0.554811	ug/L	0.015244	2.7	21.2793
Mg 279.078	1956.91	ug/L	9.38254	0.5	10715.0
Mn 257.610	29.6544	ug/L	0.157065	0.5	10097.8
Mo 202.032	5.11375	ug/L	0.721597	14.1	66.1279
Na 330.237	30014.3	ug/L	22.3899	0.1	5505.57
Ni 216.555	0.394244	ug/L	0.139717	35.4	10.3969
Pb 220.353	1.70624	ug/L	0.430619	25.2	18.2073
Sb 217.582	2.13131	ug/L	0.468004	22.0	8.43915
Se 196.026	-0.707514uv	ug/L	1.62062	229.1	4.32626
Si 251.611	2970.89	ug/L	4.20121	0.1	18202.7
Si 288.158	2977.22	ug/L	21.7050	0.7	38581.8
Sn 189.925	-0.329104uv	ug/L	0.264056	80.2	2.75356
Sr 421.552	62.1405	ug/L	0.377512	0.6	183418
Ti 336.122	1.92919	ug/L	0.002742	0.1	772.604
Tl 190.794	3.70885	ug/L	1.19965	32.3	5.84253
V 292.401	0.303530	ug/L	0.008670	2.9	37.4219
Zn 202.548	9.28457	ug/L	0.012824	0.1	364.928
Zr 339.198	3.53724	ug/L	0.177414	5.0	254.448

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360-31308-F-13-A (Samp)		12/6/2010, 5:32:26 PM		Rack 2, Tube 1	
Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	-0.165102uv	ug/L	0.356051	215.7	2.44836
Al 237.312	81.2557	ug/L	0.687961	0.8	377.698
As 188.980	0.464425uv	ug/L	0.744191	160.2	2.45962
B 249.678	17.2561	ug/L	0.539930	3.1	735.465
Ba 493.408	18.0264	ug/L	0.078641	0.4	44847.9
Be 313.042	0.015598	ug/L	0.000655	4.2	156.434
Ca 373.690	11507.4	ug/L	59.0510	0.5	77531.9
Cd 214.439	0.060674	ug/L	0.045910	75.7	9.72362
Co 228.615	-0.049354uv	ug/L	0.022762	46.1	14.6319
Cr 267.716	0.897503	ug/L	0.020701	2.3	69.1589
Cu 327.395	2.65766	ug/L	0.033094	1.2	277.573
Fe 273.955	445.785	ug/L	1.95831	0.4	8515.98
K 404.721	1379.17	ug/L	80.9659	5.9	30.5400
Li 610.365	0.658233	ug/L	0.004068	0.6	29.4385
Mg 279.078	2255.56	ug/L	7.46985	0.3	12345.8
Mn 257.610	66.2590	ug/L	0.293515	0.4	22486.9
Mo 202.032	0.791952	ug/L	0.221386	28.0	21.8358
Na 330.237	28854.9	ug/L	136.838	0.5	5280.69
Ni 216.555	0.598955	ug/L	0.118118	19.7	12.4899
Pb 220.353	0.906884	ug/L	0.718280	79.2	13.3063
Sb 217.582	0.451335	ug/L	0.575582	127.5	4.88797
Se 196.026	-2.82188uv	ug/L	1.33675	47.4	2.86827
Si 251.611	3598.31	ug/L	27.5361	0.8	22031.6
Si 288.158	3605.62	ug/L	13.3214	0.4	46603.9
Sn 189.925	-0.602308uv	ug/L	0.331023	55.0	2.24020
Sr 421.552	71.8641	ug/L	0.256582	0.4	212127
Ti 336.122	1.36875	ug/L	0.138332	10.1	609.306
Tl 190.794	0.120127uv	ug/L	0.919894	765.8	1.66227
V 292.401	0.283881	ug/L	0.055369	19.5	38.2202
Zn 202.548	19.1359	ug/L	0.084050	0.4	692.913
Zr 339.198	1.74138	ug/L	0.229061	13.2	145.686

CCV (CCV)		12/6/2010, 5:35:20 PM		Rack 4, Tube 3		
Weight: 1		Volume: 1		Dilution: 1		
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	1011.66	ug/L	7.84097	0.8	9935.46	101.16627
Al 237.312	5092.90	ug/L	36.5434	0.7	22561.4	101.85793
As 188.980	986.229	ug/L	8.12957	0.8	1296.65	98.62287
B 249.678	988.479	ug/L	16.7143	1.7	32526.9	98.84789
Ba 493.408	1025.03	ug/L	7.13965	0.7	2542727	102.50333
Be 313.042	1003.42	ug/L	6.44937	0.6	3847875	100.34185
Ca 373.690	19970.1	ug/L	116.867	0.6	133605	99.85032
Cd 214.439	985.878	ug/L	4.08585	0.4	48820.3	98.58780
Co 228.615	992.123	ug/L	5.19105	0.5	11132.1	99.21229
Cr 267.716	993.251	ug/L	3.97130	0.4	54295.2	99.32509
Cu 327.395	1021.93	ug/L	4.12581	0.4	69660.4	102.19282
Fe 273.955	4996.31	ug/L	21.4501	0.4	93375.9	99.92627
K 404.721	20920.5	ug/L	636.525	3.0	390.012	104.60245
Li 610.365	4932.24	ug/L	25.3761	0.5	410298	98.64484
Mg 279.078	19700.7	ug/L	81.0217	0.4	106612	98.50335

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mn 257.610	999.346	ug/L	5.11250	0.5	338381	99.93462
Mo 202.032	1000.86	ug/L	14.9116	1.5	10271.1	100.08604
Na 330.237	20023.4	ug/L	47.7587	0.2	3506.18	100.11679
Ni 216.555	983.734	ug/L	9.38427	1.0	10239.7	98.37343
Pb 220.353	991.842	ug/L	4.35882	0.4	6094.53	99.18417
Sb 217.582	1004.32	ug/L	4.94254	0.5	2126.89	100.43167
Se 196.026	988.134	ug/L	14.4896	1.5	695.818	98.81340
Si 251.611	1009.59	ug/L	16.6743	1.7	6412.82	100.95877
Si 288.158	1001.54	ug/L	18.7139	1.9	13579.8	100.15431
Sn 189.925	988.106	ug/L	3.89638	0.4	1916.06	98.81055
Sr 421.552	1015.41	ug/L	5.38668	0.5	2987245	101.54137
Ti 336.122	1007.92	ug/L	6.30591	0.6	293891	100.79182
Tl 190.794	994.334	ug/L	8.90996	0.9	1167.01	99.43343
V 292.401	1006.15	ug/L	6.55908	0.7	46671.5	100.61507
Zn 202.548	976.563	ug/L	2.81971	0.3	32802.2	97.65633
Zr 339.198	1027.75	ug/L	7.18898	0.7	65563.3	-

CCB (CCB)

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Rack 4, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	-0.007261uv	ug/L	0.262354	3613.2	3.97131	-0.00726
Al 237.312	-1.48860uv	ug/L	0.323676	21.7	10.0707	-1.48860
As 188.980	0.426338	ug/L	0.188306	44.2	2.40192	0.42634
B 249.678	16.3223	ug/L	2.04560	12.5	564.107	16.32232
Ba 493.408	0.112235	ug/L	0.006382	5.7	411.926	0.11223
Be 313.042	0.081430	ug/L	0.002433	3.0	401.573	0.08143
Ca 373.690	2.58987	ug/L	0.292314	11.3	78.9757	2.58987
Cd 214.439	0.084912	ug/L	0.001458	1.7	10.4644	0.08491
Co 228.615	-0.152303uv	ug/L	0.034088	22.4	13.2623	-0.15230
Cr 267.716	0.420080	ug/L	0.041310	9.8	42.9971	0.42008
Cu 327.395	-0.051654uv	ug/L	0.079430	153.8	93.1904	-0.05165
Fe 273.955	1.44577	ug/L	0.098185	6.8	65.0488	1.44577
K 404.721	416.511	ug/L	81.3051	19.5	14.5811	416.51065
Li 610.365	0.082566	ug/L	0.018199	22.0	-17.9121	0.08257
Mg 279.078	2.26060	ug/L	0.137511	6.1	26.6358	2.26060
Mn 257.610	0.108651	ug/L	0.007010	6.5	82.3674	0.10865
Mo 202.032	5.95583	ug/L	0.493410	8.3	74.7579	5.95583
Na 330.237	26.6161	ug/L	25.7325	96.7	8.90198	26.61614
Ni 216.555	-0.064754uv	ug/L	0.099950	154.4	5.05949	-0.06475
Pb 220.353	-0.143268uv	ug/L	0.228897	159.8	6.84271	-0.14327
Sb 217.582	0.255134	ug/L	0.340600	133.5	4.47324	0.25513
Se 196.026	-2.25900uv	ug/L	0.895370	39.6	3.23061	-2.25900
Si 251.611	0.375185uv	ug/L	1.08526	289.3	72.1969	0.37518
Si 288.158	0.426541uv	ug/L	1.07886	252.9	578.260	0.42654
Sn 189.925	0.109609uv	ug/L	0.564644	515.1	3.50264	0.10961
Sr 421.552	0.101827	ug/L	0.001164	1.1	360.397	0.10183
Ti 336.122	-0.249540uv	ug/L	0.010973	4.4	137.770	-0.24954
Tl 190.794	2.36203	ug/L	0.230961	9.8	4.23023	2.36203
V 292.401	0.065622	ug/L	0.045051	68.7	16.0604	0.06562
Zn 202.548	-0.140796uv	ug/L	0.019076	13.5	50.8187	-0.14080
Zr 339.198	0.627579	ug/L	0.085435	13.6	41.4169	-

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360-31308-F-14-A (Samp)		12/6/2010, 5:41:08 PM		Rack 2, Tube 2	
Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	0.327915	ug/L	0.046584	14.2	7.27649
Al 237.312	72.4997	ug/L	0.531598	0.7	338.838
As 188.980	-0.070521 ^{uv}	ug/L	0.867109	1229.6	1.76498
B 249.678	19.0740	ug/L	0.577170	3.0	834.081
Ba 493.408	30.2734	ug/L	0.159871	0.5	75226.7
Be 313.042	0.030805	ug/L	0.000567	1.8	201.342
Ca 373.690	23433.0	ug/L	110.299	0.5	155872
Cd 214.439	0.066253	ug/L	0.014810	22.4	10.1630
Co 228.615	0.102917	ug/L	0.043181	42.0	16.3406
Cr 267.716	0.552085	ug/L	0.050328	9.1	50.3583
Cu 327.395	2.39310	ug/L	0.059506	2.5	259.572
Fe 273.955	538.130	ug/L	3.17473	0.6	10268.6
K 404.721	3108.07	ug/L	91.2033	2.9	59.4333
Li 610.365	0.962958	ug/L	0.073594	7.6	54.9082
Mg 279.078	3517.02	ug/L	12.0025	0.3	19227.9
Mn 257.610	184.482	ug/L	0.889591	0.5	62502.9
Mo 202.032	1.99885	ug/L	0.235403	11.8	34.2047
Na 330.237	49857.1	ug/L	157.583	0.3	9477.09
Ni 216.555	0.680234	ug/L	0.107495	15.8	13.4254
Pb 220.353	1.50400	ug/L	0.717246	47.7	16.9957
Sb 217.582	1.00979 ^{uv}	ug/L	1.72789	171.1	6.06845
Se 196.026	-3.50902 ^{uv}	ug/L	0.713381	20.3	2.44971
Si 251.611	4604.69	ug/L	8.04023	0.2	28174.1
Si 288.158	4620.77	ug/L	22.7893	0.5	59563.9
Sn 189.925	0.079732	ug/L	0.200745	251.8	3.62397
Sr 421.552	113.592	ug/L	0.591966	0.5	335584
Ti 336.122	1.40795	ug/L	0.014634	1.0	620.730
Tl 190.794	2.05080	ug/L	0.690575	33.7	3.96284
V 292.401	0.243221	ug/L	0.119013	48.9	47.9346
Zn 202.548	11.5922	ug/L	0.042887	0.4	442.006
Zr 339.198	1.46039	ug/L	0.252073	17.3	137.045

360-31308-F-15-A (Samp)		12/6/2010, 5:44:02 PM		Rack 2, Tube 3	
Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	0.548531	ug/L	0.058164	10.6	9.43286
Al 237.312	46.1239	ug/L	1.39825	3.0	221.642
As 188.980	0.639093	ug/L	0.407934	63.8	2.68935
B 249.678	25.0548	ug/L	0.146814	0.6	1023.88
Ba 493.408	24.9402	ug/L	0.022419	0.1	61997.7
Be 313.042	0.003550	ug/L	0.001159	32.6	116.397
Ca 373.690	12461.7	ug/L	16.6681	0.1	83861.3
Cd 214.439	0.043798	ug/L	0.020706	47.3	8.76431
Co 228.615	-0.049625 ^{uv}	ug/L	0.058499	117.9	14.5134
Cr 267.716	0.578507	ug/L	0.035553	6.1	51.7337
Cu 327.395	2.11972	ug/L	0.093113	4.4	240.964
Fe 273.955	276.523	ug/L	0.458428	0.2	5300.25
K 404.721	2090.00	ug/L	330.042	15.8	42.3608
Li 610.365	0.590833	ug/L	0.045747	7.7	23.8018
Mg 279.078	2565.10	ug/L	2.93909	0.1	14035.3

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mn 257.610	37.6017	ug/L	0.034060	0.1	12792.5
Mo 202.032	0.506984	ug/L	0.001191	0.2	18.9152
Na 330.237	37692.8	ug/L	140.811	0.4	7010.77
Ni 216.555	0.667833	ug/L	0.051174	7.7	12.9991
Pb 220.353	0.997840	ug/L	0.382305	38.3	13.8694
Sb 217.582	0.798173	ug/L	0.044285	5.5	5.62112
Se 196.026	-2.65511uv	ug/L	1.12354	42.3	2.97123
Si 251.611	4442.97	ug/L	10.5873	0.2	27186.8
Si 288.158	4459.03	ug/L	0.953282	0.0	57498.7
Sn 189.925	-0.136682uv	ug/L	0.812634	594.5	3.15676
Sr 421.552	80.9357	ug/L	0.025097	0.0	238864
Ti 336.122	0.067879uv	ug/L	0.102214	150.6	230.263
Tl 190.794	0.530268	ug/L	0.295563	55.7	2.14470
V 292.401	0.355004	ug/L	0.022816	6.4	42.1522
Zn 202.548	10.9694	ug/L	0.107390	1.0	421.056
Zr 339.198	1.29119	ug/L	0.208439	16.1	124.722

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Rack 2, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	0.133287	ug/L	0.180854	135.7	5.38098
Al 237.312	92.8712	ug/L	1.42371	1.5	429.357
As 188.980	0.320440uv	ug/L	1.04220	325.2	2.28006
B 249.678	20.2869	ug/L	0.216499	1.1	884.505
Ba 493.408	34.5857	ug/L	0.031999	0.1	85923.3
Be 313.042	0.017522	ug/L	0.000118	0.7	163.798
Ca 373.690	26632.8	ug/L	16.7413	0.1	176592
Cd 214.439	0.011072	ug/L	0.005461	49.3	7.89160
Co 228.615	0.281148	ug/L	0.130425	46.4	18.6225
Cr 267.716	0.448494	ug/L	0.004805	1.1	44.7174
Cu 327.395	2.44540	ug/L	0.160858	6.6	263.134
Fe 273.955	1080.68	ug/L	0.532747	0.0	20539.8
K 404.721	3071.29	ug/L	21.8578	0.7	58.8721
Li 610.365	1.01783	ug/L	0.107900	10.6	59.2793
Mg 279.078	4262.96	ug/L	3.13606	0.1	23293.1
Mn 257.610	951.781	ug/L	1.15164	0.1	322151
Mo 202.032	0.162796	ug/L	0.031483	19.3	15.3878
Na 330.237	58383.5	ug/L	176.528	0.3	11265.8
Ni 216.555	0.678500	ug/L	0.534901	78.8	14.0977
Pb 220.353	1.04643	ug/L	0.729771	69.7	14.1857
Sb 217.582	-0.037291uv	ug/L	0.327451	878.1	3.85510
Se 196.026	-5.30327uv	ug/L	2.05930	38.8	1.59647
Si 251.611	4881.44	ug/L	18.8081	0.4	29863.1
Si 288.158	4871.97	ug/L	11.5233	0.2	62770.8
Sn 189.925	-0.067982uv	ug/L	0.145157	213.5	3.37603
Sr 421.552	157.695	ug/L	0.035929	0.0	465469
Ti 336.122	2.83186	ug/L	1.90198	67.2	1035.63
Tl 190.794	1.60204	ug/L	1.65840	103.5	3.45229
V 292.401	0.229515	ug/L	0.007436	3.2	51.1559
Zn 202.548	8.52003	ug/L	0.000769	0.0	340.164
Zr 339.198	0.620971	ug/L	0.143901	23.2	86.0328

120610tjs@720/725/730/735-ES@Quant@. All Data Report 12/7/2010, 10:04:14 AM

360-31308-F-17-A (Samp)		12/6/2010, 5:49:50 PM		Rack 2, Tube 5	
Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	-0.015992uv	ug/L	0.209337	1309.0	3.95691
Al 237.312	218.827	ug/L	1.05355	0.5	988.592
As 188.980	0.491229uv	ug/L	1.13822	231.7	2.50262
B 249.678	19.7320	ug/L	0.084650	0.4	898.745
Ba 493.408	32.2026	ug/L	0.069016	0.2	80012.0
Be 313.042	0.004242	ug/L	0.001456	34.3	118.222
Ca 373.690	23857.6	ug/L	47.4259	0.2	158735
Cd 214.439	0.085336	ug/L	0.015430	18.1	12.4983
Co 228.615	0.091080	ug/L	0.053776	59.0	17.1392
Cr 267.716	0.777736	ug/L	0.011817	1.5	62.6915
Cu 327.395	5.43988	ug/L	0.027335	0.5	466.918
Fe 273.955	2285.92	ug/L	6.06099	0.3	43199.0
K 404.721	3468.96	ug/L	378.795	10.9	65.6433
Li 610.365	0.977264	ug/L	0.015210	1.6	55.8965
Mg 279.078	4100.90	ug/L	7.82099	0.2	22411.4
Mn 257.610	515.685	ug/L	1.00386	0.2	174582
Mo 202.032	0.082230	ug/L	0.091980	111.9	14.5621
Na 330.237	55731.6	ug/L	294.115	0.5	10703.9
Ni 216.555	1.23340	ug/L	0.017194	1.4	21.3394
Pb 220.353	3.02174	ug/L	0.229607	7.6	26.2823
Sb 217.582	0.176408uv	ug/L	0.810115	459.2	4.30682
Se 196.026	-3.64464uv	ug/L	1.09320	30.0	2.51515
Si 251.611	5713.96	ug/L	10.9667	0.2	34944.5
Si 288.158	5745.23	ug/L	46.8817	0.8	73919.5
Sn 189.925	-0.097603uv	ug/L	0.440361	451.2	3.31041
Sr 421.552	141.832	ug/L	0.348828	0.2	418651
Ti 336.122	4.47254	ug/L	0.026789	0.6	1513.71
Tl 190.794	1.25946	ug/L	0.343923	27.3	3.04247
V 292.401	0.761991	ug/L	0.054284	7.1	74.9689
Zn 202.548	12.2569	ug/L	0.050465	0.4	465.946
Zr 339.198	1.52830	ug/L	0.321226	21.0	151.537

360-31308-F-18-A (Samp)		12/6/2010, 5:52:44 PM		Rack 2, Tube 6	
Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	-0.057384uv	ug/L	0.194867	339.6	3.97021
Al 237.312	1833.14	ug/L	4.46206	0.2	8127.84
As 188.980	4.47234	ug/L	0.745104	16.7	7.72865
B 249.678	12.4115	ug/L	0.007259	0.1	676.524
Ba 493.408	64.9864	ug/L	0.014884	0.0	161332
Be 313.042	0.057126	ug/L	0.001689	3.0	442.103
Ca 373.690	23305.3	ug/L	21.0737	0.1	156181
Cd 214.439	0.247069	ug/L	0.005426	2.2	33.4374
Co 228.615	2.31459	ug/L	0.310681	13.4	50.9984
Cr 267.716	3.66613	ug/L	0.031596	0.9	220.522
Cu 327.395	11.5916	ug/L	0.016884	0.1	885.625
Fe 273.955	20080.0	ug/L	30.1805	0.2	352440
K 404.721	2009.02	ug/L	269.212	13.4	42.4255
Li 610.365	0.766763	ug/L	0.015293	2.0	38.4229
Mg 279.078	3618.10	ug/L	1.47498	0.0	19794.9

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mn 257.610	1206.13	ug/L	0.281134	0.0	408212
Mo 202.032	0.062420uv	ug/L	0.134713	215.8	14.3591
Na 330.237	36700.9	ug/L	149.672	0.4	6807.70
Ni 216.555	3.18213	ug/L	0.053096	1.7	61.9881
Pb 220.353	12.7155	ug/L	0.240859	1.9	85.5023
Sb 217.582	-0.571871uv	ug/L	0.081914	14.3	2.72510
Se 196.026	-6.37154uv	ug/L	1.62475	25.5	0.832573
Si 251.611	6168.61	ug/L	88.5769	1.4	37721.8
Si 288.158	6166.99	ug/L	2.22939	0.0	79309.0
Sn 189.925	0.836487	ug/L	0.165815	19.8	5.09326
Sr 421.552	114.180	ug/L	0.011286	0.0	337319
Ti 336.122	45.2380	ug/L	0.323491	0.7	13392.0
Tl 190.794	1.34598	ug/L	0.418757	31.1	3.15903
V 292.401	3.67502	ug/L	0.004622	0.1	234.253
Zn 202.548	68.6582	ug/L	0.358349	0.5	2353.12
Zr 339.198	2.10154	ug/L	0.362153	17.2	192.229

360-31331-E-1-A (Samp)

12/6/2010, 5:55:39 PM

Rack 2, Tube 7

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	0.747735b	ug/L	0.131627	17.6	11.6711
Al 237.312	99.3334b	ug/L	1.50761	1.5	459.222
As 188.980	5.47799b	ug/L	0.499186	9.1	9.07977
B 249.678	41.5455b	ug/L	0.346287	0.8	1678.18
Ba 493.408	46.8720b	ug/L	0.290127	0.6	116399
Be 313.042	-0.041205b	ug/L	0.000408	1.0	112.504
Ca 373.690	77597.4b	ug/L	470.618	0.6	487445
Cd 214.439	0.033415b	ug/L	0.016505	49.4	14.4190
Co 228.615	6.11071b	ug/L	0.270537	4.4	86.8243
Cr 267.716	2.53810b	ug/L	0.134537	5.3	159.196
Cu 327.395	1.74310b	ug/L	0.007610	0.4	215.447
Fe 273.955	7573.20b	ug/L	44.8889	0.6	140034
K 404.721	3531.51b	ug/L	179.253	5.1	67.1113
Li 610.365	1.08544b	ug/L	0.085815	7.9	64.9551
Mg 279.078	13121.6b	ug/L	76.8468	0.6	71296.0
Mn 257.610	-xb	ug/L	201.843	0.5	13421774
Mo 202.032	0.654011b	ug/L	0.095876	14.7	20.4221
Na 330.237	73068.9b	ug/L	436.257	0.6	14462.0
Ni 216.555	10.8429b	ug/L	0.250004	2.3	127.421
Pb 220.353	5.35925b	ug/L	0.158986	3.0	40.6544
Sb 217.582	1.37270b	ug/L	0.945195	68.9	6.83557
Se 196.026	-1.17037b	ug/L	4.69197	400.9	24.9317
Si 251.611	7380.02b	ug/L	16.6035	0.2	45113.3
Si 288.158	7441.06b	ug/L	38.1917	0.5	95569.4
Sn 189.925	-0.823339uvb	ug/L	0.237888	28.9	2.36188
Sr 421.552	597.359b	ug/L	3.83928	0.6	1761319
Ti 336.122	4.75989b	ug/L	0.258357	5.4	1597.54
Tl 190.794	50.1986b	ug/L	0.303579	0.6	60.3646
V 292.401	0.088669b	ug/L	0.071393	80.5	99.2540
Zn 202.548	1.62582b	ug/L	0.464110	28.5	114.406
Zr 339.198	0.102792b	ug/L	0.176272	171.5	76.0739

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360-31356-D-1-A (Samp)		12/6/2010, 5:58:33 PM		Rack 2, Tube 8	
Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	0.277856uv	ug/L	0.460746	165.8	6.79285
Al 237.312	293.467	ug/L	0.524396	0.2	1319.81
As 188.980	0.169659uv	ug/L	1.10019	648.5	2.07438
B 249.678	18.6962	ug/L	0.179269	1.0	753.813
Ba 493.408	31.7015	ug/L	0.015626	0.0	78769.0
Be 313.042	0.010536	ug/L	0.001863	17.7	130.736
Ca 373.690	14122.2	ug/L	6.44613	0.0	94876.2
Cd 214.439	0.029512	ug/L	0.012147	41.2	8.25301
Co 228.615	-0.069535uv	ug/L	0.031229	44.9	14.6414
Cr 267.716	0.801642	ug/L	0.072996	9.1	63.9371
Cu 327.395	4.03221	ug/L	0.087689	2.2	371.117
Fe 273.955	465.844	ug/L	0.019378	0.0	8896.79
K 404.721	1149.46	ug/L	51.7440	4.5	26.8108
Li 610.365	0.852113	ug/L	0.032629	3.8	45.4932
Mg 279.078	4687.00	ug/L	5.70968	0.1	25601.6
Mn 257.610	134.281	ug/L	0.171371	0.1	45526.2
Mo 202.032	0.041433	ug/L	0.041990	101.3	14.1440
Na 330.237	34689.8	ug/L	51.9723	0.1	6417.97
Ni 216.555	1.14243	ug/L	0.082833	7.3	18.1313
Pb 220.353	0.779176	ug/L	0.074834	9.6	12.5280
Sb 217.582	-0.642136uv	ug/L	0.137551	21.4	2.57657
Se 196.026	-2.66474uv	ug/L	0.053993	2.0	3.01411
Si 251.611	2875.06	ug/L	1.99133	0.1	17617.8
Si 288.158	2879.19	ug/L	5.48612	0.2	37331.1
Sn 189.925	-0.413531uv	ug/L	0.302972	73.3	2.72881
Sr 421.552	52.1013	ug/L	0.012187	0.0	154181
Ti 336.122	12.0128	ug/L	0.040877	0.3	3710.71
Tl 190.794	-0.094062uv	ug/L	0.496384	527.7	1.42419
V 292.401	0.987416	ug/L	0.003135	0.3	73.7465
Zn 202.548	4.71777	ug/L	0.023180	0.5	213.767
Zr 339.198	0.184612	ug/L	0.098640	53.4	39.6351

360-31356-E-3-A (Samp)		12/6/2010, 6:01:27 PM		Rack 2, Tube 9	
Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	0.218711	ug/L	0.138377	63.3	6.22668
Al 237.312	134.881	ug/L	0.812338	0.6	615.858
As 188.980	-0.074214uv	ug/L	0.086195	116.1	1.75336
B 249.678	35.1466	ug/L	0.314104	0.9	1332.28
Ba 493.408	61.5245	ug/L	0.237676	0.4	152745
Be 313.042	0.022100	ug/L	0.002058	9.3	165.625
Ca 373.690	12729.1	ug/L	55.8103	0.4	85624.2
Cd 214.439	0.060414	ug/L	0.026195	43.4	9.44827
Co 228.615	-0.063598uv	ug/L	0.190500	299.5	14.4150
Cr 267.716	0.694978	ug/L	0.028294	4.1	58.0997
Cu 327.395	4.65382	ug/L	0.027737	0.6	413.420
Fe 273.955	98.6722	ug/L	0.913884	0.9	1916.74
K 404.721	831.094	ug/L	289.739	34.9	21.6841
Li 610.365	0.735471	ug/L	0.054930	7.5	35.7559
Mg 279.078	2645.98	ug/L	12.6300	0.5	14476.5

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mn 257.610	247.396	ug/L	0.847598	0.3	83784.3
Mo 202.032	-0.298654uv	ug/L	0.016301	5.5	10.6586
Na 330.237	89806.3	ug/L	211.508	0.2	18281.2
Ni 216.555	2.63042	ug/L	0.055654	2.1	33.0736
Pb 220.353	0.420129	ug/L	0.103681	24.7	10.3275
Sb 217.582	0.579075uv	ug/L	1.15282	199.1	5.15799
Se 196.026	-1.58806uv	ug/L	1.44203	90.8	3.82955
Si 251.611	3876.73	ug/L	10.2524	0.3	23731.1
Si 288.158	3886.12	ug/L	14.1867	0.4	50185.4
Sn 189.925	0.384790uv	ug/L	0.708239	184.1	4.16970
Sr 421.552	47.9651	ug/L	0.207694	0.4	141928
Ti 336.122	6.54074	ug/L	0.275389	4.2	2116.28
Tl 190.794	0.526896	ug/L	0.779584	148.0	2.14239
V 292.401	0.647554	ug/L	0.091489	14.1	55.9124
Zn 202.548	5.11538	ug/L	0.093513	1.8	226.922
Zr 339.198	0.257749	ug/L	0.110191	42.8	53.5269

360-31356-E-5-A (Samp)

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Rack 2, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 338.289	0.692656	ug/L	0.340118	49.1	10.8251
Al 237.312	3.16212	ug/L	0.619795	19.6	30.7307
As 188.980	1.31688	ug/L	0.109666	8.3	3.59412
B 249.678	16.9977	ug/L	0.141992	0.8	934.805
Ba 493.408	31.6912	ug/L	0.038638	0.1	78743.5
Be 313.042	-0.015013uv	ug/L	0.003046	20.3	74.8201
Ca 373.690	36542.9	ug/L	3.36428	0.0	239699
Cd 214.439	0.033393uv	ug/L	0.069783	209.0	8.21025
Co 228.615	-0.251700uv	ug/L	0.066657	26.5	12.0233
Cr 267.716	0.790483	ug/L	0.017989	2.3	63.4648
Cu 327.395	7.43318	ug/L	0.029304	0.4	602.563
Fe 273.955	5.49180	ug/L	0.175517	3.2	142.139
K 404.721	2254.49	ug/L	266.562	11.8	45.1140
Li 610.365	0.523320	ug/L	0.017203	3.3	18.1348
Mg 279.078	4988.62	ug/L	3.84800	0.1	27242.9
Mn 257.610	0.003048	ug/L	0.001528	50.1	91.4247
Mo 202.032	0.050200uv	ug/L	0.257368	512.7	14.2339
Na 330.237	7870.05	ug/L	41.0367	0.5	1387.95
Ni 216.555	-0.050306uv	ug/L	0.229776	456.8	5.25092
Pb 220.353	-0.193994uv	ug/L	0.216125	111.4	6.61237
Sb 217.582	0.387551	ug/L	0.234410	60.5	4.75314
Se 196.026	-4.41194uv	ug/L	0.197182	4.5	1.72608
Si 251.611	8938.68	ug/L	29.6370	0.3	54626.1
Si 288.158	8915.53	ug/L	17.8413	0.2	114393
Sn 189.925	0.133183uv	ug/L	0.683962	513.5	3.80196
Sr 421.552	378.015	ug/L	0.134395	0.0	1113939
Ti 336.122	-0.539356uv	ug/L	0.050067	9.3	53.3257
Tl 190.794	0.596459	ug/L	0.081066	13.6	2.31828
V 292.401	1.74289	ug/L	0.018902	1.1	128.809
Zn 202.548	1.99045	ug/L	0.043192	2.2	123.669
Zr 339.198	-0.630832	ug/L	0.097714	15.5	43.5599

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CCV (CCV)		12/6/2010, 6:10:09 PM			Rack 4, Tube 3	
Weight: 1		Volume: 1			Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	1012.04	ug/L	1.15224	0.1	9939.46	101.20434
Al 237.312	5107.41	ug/L	15.3012	0.3	22626.2	102.14812
As 188.980	990.908	ug/L	4.65873	0.5	1302.80	99.09080
B 249.678	993.672	ug/L	14.2430	1.4	32697.5	99.36719
Ba 493.408	1026.48	ug/L	2.54255	0.2	2546314	102.64789
Be 313.042	1013.70	ug/L	1.57092	0.2	3887145	101.37029
Ca 373.690	20161.5	ug/L	8.18697	0.0	134859	100.80759
Cd 214.439	994.136	ug/L	0.658208	0.1	49229.2	99.41365
Co 228.615	1000.97	ug/L	0.731448	0.1	11231.3	100.09650
Cr 267.716	1003.88	ug/L	1.05302	0.1	54875.8	100.38770
Cu 327.395	1028.86	ug/L	7.67606	0.7	70132.2	102.88584
Fe 273.955	5042.35	ug/L	2.02741	0.0	94218.6	100.84695
K 404.721	20865.2	ug/L	462.620	2.2	388.930	104.32611
Li 610.365	4986.21	ug/L	1.09898	0.0	414788	99.72426
Mg 279.078	19928.4	ug/L	11.3289	0.1	107829	99.64188
Mn 257.610	1008.38	ug/L	0.951167	0.1	341440	100.83785
Mo 202.032	1007.29	ug/L	11.9436	1.2	10336.9	100.72875
Na 330.237	20184.7	ug/L	14.7208	0.1	3535.20	100.92358
Ni 216.555	994.120	ug/L	2.30345	0.2	10347.5	99.41200
Pb 220.353	999.834	ug/L	0.286226	0.0	6143.58	99.98344
Sb 217.582	1006.66	ug/L	1.12622	0.1	2131.84	100.66605
Se 196.026	990.064	ug/L	2.97249	0.3	697.172	99.00645
Si 251.611	1006.04	ug/L	14.9600	1.5	6392.74	100.60399
Si 288.158	1001.66	ug/L	14.4810	1.4	13583.7	100.16582
Sn 189.925	998.054	ug/L	1.34136	0.1	1935.32	99.80535
Sr 421.552	1021.20	ug/L	1.51697	0.1	3004285	102.12044
Ti 336.122	1024.91	ug/L	2.29024	0.2	298842	102.49100
Tl 190.794	1001.84	ug/L	7.40067	0.7	1175.82	100.18414
V 292.401	1014.10	ug/L	2.21459	0.2	47040.4	101.40983
Zn 202.548	985.433	ug/L	2.11472	0.2	33100.0	98.54326
Zr 339.198	1023.82	ug/L	7.22415	0.7	65312.7	-

CCB (CCB)		12/6/2010, 6:13:04 PM			Rack 4, Tube 4	
Weight: 1		Volume: 1			Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	-0.197568uv	ug/L	0.128260	64.9	2.10852	-0.19757
Al 237.312	0.020006uv	ug/L	0.998303	4990.0	16.8118	0.02001
As 188.980	2.07788	ug/L	1.68401	81.0	4.56946	2.07788
B 249.678	13.2842	ug/L	1.81785	13.7	464.483	13.28420
Ba 493.408	0.123267	ug/L	0.002859	2.3	439.290	0.12327
Be 313.042	0.075116	ug/L	0.004544	6.0	427.962	0.07512
Ca 373.690	2.18624	ug/L	0.753615	34.5	76.2318	2.18624
Cd 214.439	0.109565	ug/L	0.005955	5.4	11.6850	0.10957
Co 228.615	-0.040069uv	ug/L	0.099450	248.2	14.5173	-0.04007
Cr 267.716	0.281171	ug/L	0.030803	11.0	35.4065	0.28117
Cu 327.395	-0.131121uv	ug/L	0.023637	18.0	87.7859	-0.13112
Fe 273.955	1.51039	ug/L	0.305320	20.2	66.2781	1.51039
K 404.721	544.550	ug/L	485.563	89.2	16.6892	544.55023
Li 610.365	0.003322uv	ug/L	0.099730	3001.9	-24.5449	0.00332
Mg 279.078	1.67162	ug/L	0.676058	40.4	23.4116	1.67162

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mn 257.610	0.128621	ug/L	0.001086	0.8	89.1191	0.12862
Mo 202.032	5.55216	ug/L	0.427795	7.7	70.6209	5.55216
Na 330.237	-6.00307uv	ug/L	10.3562	172.5	3.25110	-6.00307
Ni 216.555	0.125012	ug/L	0.065983	52.8	7.09166	0.12501
Pb 220.353	-0.017685uv	ug/L	0.403614	2282.3	7.61340	-0.01768
Sb 217.582	0.543566	ug/L	0.662202	121.8	5.08293	0.54357
Se 196.026	-2.18289uv	ug/L	2.66127	121.9	3.28381	-2.18289
Si 251.611	-0.989239uv	ug/L	1.44194	145.8	63.8254	-0.98924
Si 288.158	-1.43361uv	ug/L	0.971366	67.8	554.487	-1.43361
Sn 189.925	-0.354442uv	ug/L	1.50073	423.4	2.60477	-0.35444
Sr 421.552	0.107328	ug/L	0.001429	1.3	376.551	0.10733
Ti 336.122	-0.257534uv	ug/L	0.005046	2.0	135.441	-0.25753
Tl 190.794	1.81469	ug/L	0.481751	26.5	3.59217	1.81469
V 292.401	0.082233uv	ug/L	0.153146	186.2	16.8292	0.08223
Zn 202.548	-0.129146uv	ug/L	0.013085	10.1	51.1662	-0.12915
Zr 339.198	0.647289	ug/L	0.066216	10.2	42.6581	-

CCV (CCV)

12/6/2010, 6:56:33 PM

Rack 4, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	1011.65	ug/L	2.80788	0.3	9935.76	101.16521
Al 237.312	5104.16	ug/L	0.481302	0.0	22612.3	102.08327
As 188.980	992.972	ug/L	0.303705	0.0	1305.51	99.29720
B 249.678	992.097	ug/L	8.90715	0.9	32645.9	99.20970
Ba 493.408	1021.32	ug/L	1.84588	0.2	2533520	102.13213
Be 313.042	1014.83	ug/L	1.59116	0.2	3891507	101.48335
Ca 373.690	20140.2	ug/L	27.3148	0.1	134720	100.70075
Cd 214.439	994.862	ug/L	1.16752	0.1	49265.1	99.48616
Co 228.615	1001.26	ug/L	0.541853	0.1	11234.7	100.12619
Cr 267.716	1004.13	ug/L	0.891738	0.1	54889.9	100.41346
Cu 327.395	1029.25	ug/L	0.413371	0.0	70158.7	102.92474
Fe 273.955	5055.74	ug/L	1.95663	0.0	94463.6	101.11481
K 404.721	20740.9	ug/L	289.766	1.4	386.451	103.70434
Li 610.365	4999.96	ug/L	3.62668	0.1	415931	99.99923
Mg 279.078	19989.6	ug/L	30.9138	0.2	108157	99.94822
Mn 257.610	1007.38	ug/L	0.321487	0.0	341103	100.73827
Mo 202.032	1007.68	ug/L	8.85075	0.9	10341.0	100.76793
Na 330.237	20249.0	ug/L	75.9670	0.4	3546.94	101.24521
Ni 216.555	1000.16	ug/L	5.79587	0.6	10410.2	100.01591
Pb 220.353	1001.93	ug/L	1.22725	0.1	6156.42	100.19257
Sb 217.582	1003.56	ug/L	1.26674	0.1	2125.28	100.35561
Se 196.026	990.087	ug/L	6.89507	0.7	697.187	99.00865
Si 251.611	1005.04	ug/L	9.21207	0.9	6386.61	100.50441
Si 288.158	1002.59	ug/L	7.66078	0.8	13595.6	100.25929
Sn 189.925	997.577	ug/L	2.06521	0.2	1934.40	99.75774
Sr 421.552	1016.61	ug/L	0.564512	0.1	2990768	101.66081
Ti 336.122	1025.10	ug/L	1.45824	0.1	298898	102.51024
Tl 190.794	999.973	ug/L	5.34434	0.5	1173.64	99.99725
V 292.401	1013.72	ug/L	0.165210	0.0	47022.8	101.37197
Zn 202.548	987.012	ug/L	1.12958	0.1	33153.0	98.70117
Zr 339.198	1020.53	ug/L	3.93514	0.4	65103.4	-

120610tjs@720/725/730/735-ES@Quant@. All Data Report 12/7/2010, 10:04:14 AM

CCB (CCB)		12/6/2010, 6:59:27 PM		Rack 4, Tube 4		
Weight: 1		Volume: 1		Dilution: 1		
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	0.374020	ug/L	0.131503	35.2	7.70520	0.37402
Al 237.312	3.16317	ug/L	0.411021	13.0	30.7330	3.16317
As 188.980	0.897854	ug/L	0.654255	72.9	3.02071	0.89785
B 249.678	14.5190	ug/L	1.49915	10.3	504.999	14.51895
Ba 493.408	0.169720	ug/L	0.007938	4.7	554.518	0.16972
Be 313.042	0.112774	ug/L	0.005347	4.7	535.434	0.11277
Ca 373.690	3.96572	ug/L	0.405701	10.2	88.5834	3.96572
Cd 214.439	0.184824	ug/L	0.002853	1.5	15.4138	0.18482
Co 228.615	-0.179391uv	ug/L	0.082069	45.7	12.9780	-0.17939
Cr 267.716	0.282787	ug/L	0.019560	6.9	35.4948	0.28279
Cu 327.395	0.035738uv	ug/L	0.061896	173.2	99.1372	0.03574
Fe 273.955	5.05568	ug/L	0.083083	1.6	133.823	5.05568
K 404.721	128.966	ug/L	10.2285	7.9	9.87695	128.96593
Li 610.365	-0.014878uv	ug/L	0.033459	224.9	-26.0400	-0.01488
Mg 279.078	3.75545	ug/L	0.182638	4.9	34.8222	3.75545
Mn 257.610	0.184136	ug/L	0.001402	0.8	107.923	0.18414
Mo 202.032	5.73820	ug/L	0.648405	11.3	72.5276	5.73820
Na 330.237	30.2676	ug/L	7.29394	24.1	9.53003	30.26764
Ni 216.555	0.046534uv	ug/L	0.259785	558.3	6.23563	0.04653
Pb 220.353	0.325601	ug/L	0.235542	72.3	9.72006	0.32560
Sb 217.582	0.709666	ug/L	0.145299	20.5	5.43404	0.70967
Se 196.026	0.428845uv	ug/L	1.13606	264.9	5.10893	0.42885
Si 251.611	0.451455uv	ug/L	2.78247	616.3	72.6850	0.45145
Si 288.158	0.518991uv	ug/L	3.16441	609.7	579.527	0.51899
Sn 189.925	0.345309uv	ug/L	0.707397	204.9	3.95874	0.34531
Sr 421.552	0.140141	ug/L	0.001773	1.3	473.152	0.14014
Ti 336.122	0.498110	ug/L	0.045651	9.2	355.615	0.49811
Tl 190.794	1.56909	ug/L	0.718652	45.8	3.30529	1.56909
V 292.401	0.297354	ug/L	0.076194	25.6	26.8241	0.29735
Zn 202.548	-0.095431uv	ug/L	0.050431	52.8	52.3498	-0.09543
Zr 339.198	0.656406	ug/L	0.058969	9.0	43.2542	-

ICSA (ICSA)		12/6/2010, 7:02:21 PM		Rack 4, Tube 5		
Weight: 1		Volume: 1		Dilution: 1		
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	0.671860	ug/L	0.100782	15.0	12.6633	0.67186
Al 237.312	109783	ug/L	458.338	0.4	4374139782.90625K	
As 188.980	0.567278	ug/L	0.137107	24.2	2.64873	0.56728
B 249.678	9.31402	ug/L	0.266568	2.9	333.348	9.31402
Ba 493.408	0.782590	ug/L	0.002328	0.3	2074.74	0.78259
Be 313.042	0.048679	ug/L	0.000820	1.7	337.586	0.04868
Ca 373.690	103365	ug/L	133.798	0.1	6352743365.02344K	
Cd 214.439	0.122672	ug/L	0.063187	51.5	85.9864	0.12267
Co 228.615	-0.472852	ug/L	0.046994	9.9	54.1465	-0.47285
Cr 267.716	0.352568	ug/L	0.039058	11.1	39.9137	0.35257
Cu 327.395	0.081701uv	ug/L	0.135968	166.4	102.334	0.08170
Fe 273.955	108494	ug/L	296.013	0.3	17079618494.28125K	
K 404.721	1294.45	ug/L	422.564	32.6	35.02591294.45435	
Li 610.365	1.49487	ug/L	0.129288	8.6	99.0059	1.49487
Mg 279.078	100701	ug/L	105.569	0.1	5186050701.28906K	

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mn 257.610	-0.898023	ug/L	0.018250	2.0	595.833	-0.89802
Mo 202.032	0.626857	ug/L	0.027815	4.4	20.1438	0.62686
Na 330.237	148.410	ug/L	35.0786	23.6	29.3752	148.41045
Ni 216.555	0.153521	ug/L	0.142525	92.8	119.481	0.15352
Pb 220.353	-1.21409uv	ug/L	0.180020	14.8	-0.997375	-1.21409
Sb 217.582	-0.586715uv	ug/L	0.146514	25.0	2.69373	-0.58671
Se 196.026	-4.59485uv	ug/L	0.780575	17.0	0.813599	-4.59485
Si 251.611	-4.88398uv	ug/L	0.494173	10.1	39.5168	-4.88398
Si 288.158	-2.55076uv	ug/L	0.708045	27.8	539.891	-2.55076
Sn 189.925	-1.79027	ug/L	0.111661	6.2	4.66456	-1.79027
Sr 421.552	0.521927	ug/L	0.002743	0.5	7780.52	0.52193
Ti 336.122	0.040511	ug/L	0.000414	1.0	224.220	0.04051
Tl 190.794	1.31622	ug/L	0.874613	66.4	3.40755	1.31622
V 292.401	-3.21633	ug/L	0.058470	1.8	87.7927	-3.21633
Zn 202.548	4.68141	ug/L	0.352808	7.5	265.053	4.68141
Zr 339.198	1.41000	ug/L	0.083505	5.9	92.7896	-

ICSAB (ICSAB)

12/6/2010, 7:05:16 PM

Rack 4, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 338.289	579.324	ug/L	0.034829	0.0	5692.43	96.55395
Al 237.312	109530	ug/L	154.878	0.1	436508	109.52953
As 188.980	1805.17	ug/L	7.79017	0.4	2371.35	90.25857
B 249.678	6.20273	ug/L	0.096368	1.6	262.548	-
Ba 493.408	551.738	ug/L	0.407545	0.1	1368720	91.95636
Be 313.042	167.433	ug/L	0.336010	0.2	692648	83.71639
Ca 373.690	102580	ug/L	366.806	0.4	630974	102.57964
Cd 214.439	529.147	ug/L	0.031980	0.0	26276.9	88.19115
Co 228.615	533.686	ug/L	0.745906	0.1	6026.18	88.94773
Cr 267.716	532.991	ug/L	0.760364	0.1	29145.3	88.83182
Cu 327.395	580.705	ug/L	4.61070	0.8	39625.4	96.78415
Fe 273.955	107751	ug/L	77.5773	0.1	1696586	107.75095
K 404.721	39417.6	ug/L	227.517	0.6	785.974	98.54412
Li 610.365	1.24006	ug/L	0.093487	7.5	77.7480	-
Mg 279.078	100316	ug/L	730.900	0.7	516746	100.31648
Mn 257.610	355.478	ug/L	0.329903	0.1	121182	88.86941
Mo 202.032	0.144060	ug/L	0.176078	122.2	15.1958	-
Na 330.237	292.931	ug/L	0.835332	0.3	4.93726	-
Ni 216.555	525.514	ug/L	0.503960	0.1	5632.59	87.58572
Pb 220.353	1722.72	ug/L	2.08559	0.1	10578.6	86.13586
Sb 217.582	963.319	ug/L	0.408710	0.0	2040.22	96.33192
Se 196.026	885.231	ug/L	2.63331	0.3	622.832	88.52306
Si 251.611	-7.64439uv	ug/L	0.474501	6.2	33.9518	-
Si 288.158	-3.25627uv	ug/L	0.318006	9.8	555.020	-
Sn 189.925	-0.602755	ug/L	0.225552	37.4	6.94284	-
Sr 421.552	0.506163	ug/L	0.010239	2.0	7693.12	-
Ti 336.122	0.186165	ug/L	0.033050	17.8	266.647	-
Tl 190.794	1750.71	ug/L	1.44140	0.1	2047.50	87.53532
V 292.401	544.589	ug/L	0.380873	0.1	25456.9	90.76477
Zn 202.548	517.012	ug/L	8.78571	1.7	17455.1	86.16860
Zr 339.198	3.76097	ug/L	0.231202	6.1	242.728	-

METALS BATCH WORKSHEET

Lab Name: TestAmerica Westfield Job No.: 360-31308-2

SDG No.: 360-31308-2

Batch Number: 66700 Batch Start Date: 12/06/10 08:10 Batch Analyst: Nasiatka, Ellen M

Batch Method: 3010A Batch End Date: 12/06/10 23:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	stlma-3 00050	stlma2 00046		
MB 360-66700/1		3010A, 6010B		50 mL	50 mL				
LCS 360-66700/2		3010A, 6010B		50 mL	50 mL	0.5 mL	0.5 mL		
LCSD 360-66700/3		3010A, 6010B		50 mL	50 mL	0.5 mL	0.5 mL		
360-31308-F-11	OC-SW-MMB-SW/SD- 8A-XXX	3010A, 6010B	T	50 mL	50 mL				

Batch Notes	
Lot # of hydrochloric acid	533950
Lot # of Nitric Acid	560736
Hot Block ID number	2
Oven, Bath or Block Temperature 1	95 Degrees C

Basis	Basis Description
T	Total/NA

Shipping and Receiving Documents

State Accreditation Matrix

Method Name	Description	State where Primary Accreditation is Carried				
		New Hampshire (NELAC) prim.	Mass	Conn	Florida (NELAC)	North Carolina
821-R-02-012	Toxicity, Acute (48-Hour)(list upon request)	NP			NP	
SM 4500 Cl F	Chlorine, Residual		NP			
SM 9215E	Heterotrophic Plate Count (SimPlate)		P			
SM 9222D	Coliforms, Fecal (Membrane Filter)		P/NP			
SM 9223	Coliforms, Total, and E.Coli (Colilert-P/A)		P			
SM 9224	Coliforms, Total, and E.Coli (Enumeration)		P			
1103.1	E.coli		ambient/ source			
Enterolert	Enterococcus					
200.8 Rev 5.4	Metals (ICP/MS) (list upon request)	NP/P	NP/P	NP/P		
200.7 Rev 4.4	Metals (ICP)(list upon request)	NP/P	NP/P	NP/P		
6010B	Metals (ICP)(list upon request)	NP/SW		NP/SW		
245.1	Mercury (CVAA)	NP/P	NP	NP/P		
7470A	Mercury (CVAA)	NP		NP		
7471A	Mercury (CVAA)	SW		SW		
SM 2340B	Total Hardness (as CaCO3) by calculation	NP/P	NP	NP/P		
3005A	Preparation, Total Recoverable or Dissolved Metals	NP/P		NP/P		
3010A	Preparation, Total Metals	NP/P		NP/P		
3020A	Preparation, Total Metals	NP/P/SW		NP/P/SW		
3050B	Preparation, Metals	SW		SW		
504.1	EDB, DBCP and 1,2,3-TCP (GC)	P	P	P		
608	Organochlorine Pest/PCBs (list upon request)	NP	NP	NP		
625	Semivolatile Org Comp (GC/MS)(list upon request)	NP		NP		
3546	Microwave Extraction	SW				
3510C	Liquid-Liquid Extraction (Separatory Funnel)	NP		NP		
3540C	Soxhlet Extraction	SW				
3550B	Ultrasonic Extraction	SW		SW		
600/4-81-045	Polychlorinated Biphenyls (PCBs) (GC)		NP	NP		
8081A	Organochlorine Pesticides (GC)(list upon request)	NP/SW		NP/SW		
8082	PCBs by Gas Chromatography(list upon request)	NP/SW		NP/SW		
8270C	Semivolatile Comp.(GC/MS)(list upon request)	NP/SW		NP/SW		
CT ETPH	Conn - Ext. Total petroleum Hydrocarbons (GC)			NP/SW		
MA-EPH	Mass - Extractable Petroleum Hydrocarbons (GC)			NP/SW		NP/SW
524.2	Volatile Org Comp (GC/MS)(list upon request)	P	P	P		
524.2	Trihalomethane compounds	P	P	P		
624	Volatile Org Comp (GC/MS)(list upon request)	NP	NP	NP		
5035	Closed System Purge and Trap	SW		SW		
5030B	Purge and Trap	NP		NP		
8260B	Volatile Org Comp. (GC/MS)(list upon request)	NP/SW		NP/SW		
MAVPH	Mass - Volatile Petroleum Hydrocarbons (GC)			NP/SW		NP/SW
180.1	Turbidity, Nephelometric	P	P	P		
300	Anions, Ion Chromatography	NP/P	NP/P	NP/P		
410.4	COD	NP	NP	NP		
1010	Ignitability, Pinsky-Martens Closed-Cup Method	SW		SW		
10-107-06-2	Nitrogen, Total Kjeldahl	NP	NP	NP		
7196A	Chromium, Hexavalent	NP/SW		NP/SW		
9012A	Cyanide, Total and/or Amenable	NP/SW		NP/SW		
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	NP		NP		
9040B	pH	NP		NP		
9045C	pH	SW		SW		
L107041C	Nitrogen, Nitrate	NP	P	NP/P		
L107-06-1B	Nitrogen Ammonia	NP	NP	NP/P		
L204001A CN	Cyanide, Total	P	NP/P	NP/P		
L210-001A	Phenolics, Total Recoverable	NP	NP	NP		
SM 2320B	Alkalinity	NP/P	NP/P	NP/P		
SM 2510B	Conductivity, Specific Conductance	NP/P	NP/P	NP/P		
SM 2540C	Solids, Total Dissolved (TDS)	NP/P	NP/P	NP/P		
SM 2540D	Solids, Total Suspended (TSS)	NP	NP	NP		
SM 3500 CR D	Chromium, Hexavalent	NP		NP		
SM 4500 H+ B	pH	NP/P	NP/P	NP/P		
SM 4500 NO2 B	Nitrogen, Nitrite	NP	P	NP/P		
SM 4500 P E	Phosphorus, Orthophosphate	NP/P	NP	NP/P		
SM 4500 P E	Phosphorus, Total	NP	NP	NP		
SM 4500 S2 D	Sulfide, Total	NP		NP		
SM 5210B	BOD, 5-Day	NP	NP	NP		
SM 5310B	Organic Carbon, Total (TOC)	NP/P	NP	NP/P		

Not all organic compounds are accredited under NELAC

For methods with multiple compounds all compounds may not meet NELAC criteria, listing should be obtained from the laboratory

The lab carries additional accreditations with several states. This is the laboratories typical listing but is subject to change based on the laboratories current certification standing.

Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 360-31308-2
SDG Number: 360-31308-2

Login Number: 31308
List Number: 1
Creator: Beaumier, Janine E

List Source: TestAmerica Westfield

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

wed Dec 1st
pick up

TAL-west field
360-31308

Page 1 of 2

Client: Olin Corporation Client Project #: 6107090016
 Address: 3855 North Ocoee St. Suite 200 Wilmington, MA
 Cleveland, TN 37312 Reports Sent To: Steve Morrow
 Phone: 423-336-4511 Fax: 423-336-1466 Email SGMorrow@olin.com Email Rpt:
 Requested Turnaround Time (SPECIFY) Regulatory Programs: MADEP MCP Superfund
 Standard Rush (Lab Approval Required) Report Requirements: Level IV Package Level III Package
 EDD Requirements: MACTEC EQUIS EZ EDD

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	VOA and TICs (8260B)	SVOA+TICs (8270C - LL)	NDMA (8270C - Low Level)	Diphenylamine (8270C)**	TAL Metals (6010B/7470A)	EPH (MADEP-EPH-04-1.1)	VPH (MADEP-VPH-04-1.1)	PCBs (8082)	Ammonia (ACHAT)	Anions (EPA 300)***	Pesticides (8081)	Alkalinity (SM 2320B)	Hardness (SM 2340B)	pH (SM 4500)	Conductivity (SM 2510B)	TDS (SM 2540C)	TSS (SM 2540D)	TOC (Lloyd Kahn)	COD (EPA 4104)	Herbicides (8151A)	Comments (Special Instructions)
OC-SW-MMB-SW/SD-1	12/1/2010 2:40:00 PM	T	FS	SW	G	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

MACTEC

Special Instructions For Lab

Notes:
 1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable
 2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank
 3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water, SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil
 4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water
 5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass

Relinquished: *Jerry Deek* Date: 12/1/10 Time: 6:00 Received: *Jerry Deek* Date: 12/1/10 Time: 16:00
 Relinquished: *Jerry Deek* Date: 12/1/10 Time: 18:54 Received: *Jerry Deek* Date: 12/1/10 Time: 18:54

Nitrate/Nitrite = 48 hour hold time

By: JB Date: 12/1/10

MADEP Requirement: Cooler (Y) N Samples Iced (Y) N
 Temp @ receipt: 16.00 Deg C
 Preservation / pH checked? (Y) N
 -0.6°C / 2.6°C
 Samples not frozen

Wed Dec 1st
Pick up

TAL - Westfield 360-31308

Page 2 of 2

MACTEC		Date/Time Collected		12/1/2010 12:15:00 PM	
Sample ID	OC-SW-MMB-SW/SD-9	Fraction (1)	T	FS	SW
		Sample Matrix (3)	G		
		Composite (C) or Grab (G)			
		Total # of Containers	11	X	X
		VOA and TICs (8260B)	V	X	X
		SVOA+TICs (8270C - LL)	HA	X	X
		NDMA (8270C - Low Level)	-		
		Diphenylamine (8270C)**	-	X	X
		TAL Metals (6010B/7470A)	-	X	X
		EPH (MADEP-EPH-04-1.1)	HA		
		VPH (MADEP-VPH-04-1.1)	HA		
		PCBs (8082)	SA	X	X
		Amonia (LACHAT)	SA		
		Anions (EPA 300)***	-	X	X
		Pesticides (8081)	-		
		Alkalinity (SM 2320B)	NI	X	X
		Hardness (SM 2340B)	NI		
		pH (SM 4500)	-		
		Conductivity (SM 2510B)	-		
		TDS (SM 2540C)	-	X	X
		TSS (SM 2540D)	-	X	X
		TOC (Lloyd Kahn)	SA	X	X
		COD (EPA 410.4)	SA		
		Herbicides (8151A)	-		
		Preservative Type (4)	←-Bottle Type (5)		
		Comments (Special Instructions)			

Special Instructions For Lab

Notes:

- 1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable
- 2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank
- 3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water, SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil
- 4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water
- 5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass

** = Using Method 3620B

*** = Sulfate, Chloride, Nitrate, Nitrite, Bromide

Nitrate/Nitrite = 48 hour hold time

Relinquished: Jerry Sab Date: 12/1/10 Time: 6:00 Received: Jerry Sab Date: 12/1/10 Time: 6:10
 Relinquished: Jerry Sab Date: 12/1/10 Time: 8:54 Received: Jerry Sab Date: 12/1/10 Time: 18:54

Cooler	Y	MADEP Requirement	N
Temp @ receipt		Samples Iced?	Y/N
Preservation / pH checked?	Y/N	Deg C	
By: JB	Date: 12/1/10		

-0.6°C / 2.6°C
Samples not frozen

Thursday
Pick-up

Dec 2

TAL - westfield

360-31308

Page 2 of 3

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	VOA and TICs (826B)	HA	SVOA+TICS (827C - LL)	NDMA (827C - Low Level)	Diphenylamine (827C)**	TAL Metals (601B/7470A)	EPH (MADEP-EPH-04-1.1)	VPH (MADEP-VPH-04-1.1)	PCBs (8082)	Ammonia (LACHAT)	Anions (EPA 300)**	Pesticides (8081)	Alkalinity (SM 2320B)	Hardness (SM 2340B)	pH (SM 4500)	Conductivity (SM 2510B)	TDS (SM 2540C)	TSS (SM 2540D)	TOC (Lloyd Kahn)	COD (EPA 410.4)	Herbicides (8151A)	Comments (Special Instructions)	
OC-SW-MMB-SW/SD-4-XXX	12/2/2010 10:00:00 AM	T	IFS	SW	G	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
OC-SW-MMB-SW/SD-5-XXX	12/2/2010 1:15:00 PM	T	IFS	SW	G	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
OC-SW-MMB-SW/SD-8-DUP	12/2/2010 1:00:00 PM	T	FD	SW	G	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
OC-SW-MMB-SW/SD-8-MSD	12/2/2010 1:00:00 PM	T	IM	SW	G	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		SVOC in (8) 250 mL Amber jars

Special Instructions For Lab

Notes:
 1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable
 2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank
 3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water, SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil
 4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water
 5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass

** = Using Method 3620B
 *** = Sulfate, Chloride, Nitrate, Nitrite, Bromide

Nitrate/Nitrite = 48 hour hold time

Relinquished: *[Signature]* Date: 12/2/10 Time: 6:20 Received: *[Signature]* Date: 12/2/10 Time: 1:50
 Relinquished: *[Signature]* Date: 12/2/10 Time: 9:00 Received: *[Signature]* Date: 12/2/10 Time: 1:40

Cooler: Y N MADEP Requirement
 Temp @ receipt: _____ Deg C
 Preservation / pH checked? Y N
 By: *[Signature]* Date: 12/2/10
 1.20C/0.60C

Thursday Pickup
Dec 2

TAL- Westfield

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360-31308

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	VOA and TICs (8270C - LL)	SVOA+TICs (8270C - LL)	NDMA (8270C - Low Level)	Diphenylamine (8270C)**	TAL Metals (6010B/7470A)	EPH (MADEP-EPH-04-1.1)	VPH (MADEP-VPH-04-1.1)	PCBs (8082)	Amonia (LACHAT)	Amons (EPA 300)...	Pesticides (8081)	Alkalinity (SM 2320B)	Hardness (SM 2340B)	pH (SM 4500)	Conductivity (SM 2510B)	TDS (SM 2540C)	TSS (SM 2540D)	TOC (Lloyd Kahn)	COD (EPA 410.4)	Herbicides (8151A)	Comments (Special Instructions)
OC-SW-MMB-SW/SD-8-XMS	12/2/2010 1:00:00 PM	T	MS	SW	G	10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	only (1) 1L Amber for SUOC matrix spike
OC-SW-MMB-SW/SD-8-XXX	12/2/2010 1:00:00 PM	T	FS	SW	G	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
OC-TBK-060	12/2/2010 3:00:00 PM	T	TB	BW	G	3	X																				Trip Blank

Special Instructions For Lab

Notes:

- 1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable
- 2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank
- 3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water, SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil
- 4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water
- 5.) Bottle Type: G = Glass, P = Plastic, V = 40mL, VOA Glass Vial, AG = Amber Glass

** = Using Method 3620B

*** = Sulfate, Chloride, Nitrate, Nitrite, Bromide

Nitrate/Nitrite = 48 hour hold time

Relinquished: *[Signature]* Date: 12/2/10 Time: 16:20 Received: *[Signature]* Date: 12/2/10 Time: 16:20

Relinquished: *[Signature]* Date: 12/2/10 Time: 19:00 Received: *[Signature]* Date: 12/2/10 Time: 19:00

Cooler	Y/N	MADEP Requirement
Temp @ receipt:	1.2°C/0.6°C	Samples Iced Y/N
Preservation / pH checked?	Y/N	
By: JB	Date: 12/3/10	

360-31308

Page 1 of 1

TAL - FL

Thursday Pick up Nec2

Client Project #: 61C7090016
 Work Site ID: Wilmington, MA
 Reports Sent To: Steve Morrow
 Client: Olin Corporation
 Address: 3855 North Ocoee St. Suite 200
 Cleveland, TN 37312
 Phone: 423-336-4511 Fax: 423-336-1466 Email: SGMorrow@olin.com
 Regulatory Programs: MADEP MCP Superfund
 Report Requirements: Level IV Package Level II Package
 EDD Requirements: MAC/TEC EQUIS EZ EDD

Company Name: Olin Corp
 Company Contact: ERG Accounts Payable
 Address: Same as Client
 Phone: Same as Client
 Email: Same as Client
 Job #: _____ Quote #: _____
 Lab SDG #: _____ PO #: _____

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	AC/AG	SA	Cr+6 (3060A / 7:99)	DMF (Mod 8033 - GC/NPD)	Phthalic Anhydride (acid)	Mod 8000 - HPLC	Formaldehyde/acetaldehyde (SW-846 8315A)	Cr+6 / Kenpore (90903 - HPLC)	Perchlorate (6850)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Zn AV (Mod 8315 LC/MS/MS)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Preservative Type (4)	Comments (Special Instructions)
OC-SW-MMB-SW/SD-10-XXX	12/2/2010 9:00:00 AM	T FS	SW G	2									X									
OC-SW-MMB-SW/SD-4-XXX	12/2/2010 10:00:00	T FS	SW G	2									X									
OC-SW-MMB-SW/SD-5-XXX	12/2/2010 1:15:00 PM	T FS	SW G	2									X									
OC-SW-MMB-SW/SD-8-DUP	12/2/2010 1:00:00 PM	T FD	SW G	2									X									
OC-SW-MMB-SW/SD-8-MSD	12/2/2010 1:00:00 PM	T M	SW G	2									X									
OC-SW-MMB-SW/SD-8-XMS	12/2/2010 1:00:00 PM	T M	SW G	2									X									
OC-SW-MMB-SW/SD-8-XXX	12/2/2010 1:00:00 PM	T FS	SW G	2									X									

Special Instructions For Lab

Notes:
 1.) Fraction: T = Total, D = Dissolved, S = SPL, P, C = TCLP, N = Not Applicable
 2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank
 3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water, SO = Soil, SD = Sediment, BV = B ank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil
 4.) Preservation Type: LA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water
 5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial

Cr+6 = 24 hour hold time
 Formaldehyde = 3 day hold time
 Relinquished: Steve Morrow Date: 12/2/10 Time: 1620 Received: _____ Date: _____ Time: _____
 Relinquished: _____ Date: _____ Time: _____ Received: _____ Date: _____ Time: _____

Cooler? Y/N	MADEP Requirement
Temp @ receipt	Samples Iced? Y/N
Preservation / pH checked? Y/N	Deg C
By: _____	Date: _____

360-31308

TAL-FL

Thursday Shipment

Page 2 of 2

Client: Olin Corporation Client Project #: 6107090016
 Address: 3855 North Ocoee St. Suite 200 Wilmington, MA
 Cleveland, TN 37312 Reports Sent To: Steve Morrow
 Phone: 423-336-4511 Fax: 423-336-1466 Email: SGMorrow@olin.com
 Regulatory Programs: MADEP MCP Superfund
 Requested Turnaround Time (SPECIFY) Report Requirements: Level IV Package Level II Package
 Standard Rush (Lab Approval Required) EDD Requirements: MACTEC EQUIS EZ EDD

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	NDA/NDA (Mod 521)	AG	SA	Cr+6 (3050A/7199)	V	Phthalic Anhydride (acid)	AG	AG	Formaldehyde/Acetaldehyde	Opex / Kenipore (8000B - 11PLG)	Perchlorate (6850)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Zn	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	S	AG	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Preservative Type (4)	Bottle Type (5)	Comments (Special Instructions)		
OC-SW-MMB-SW/SD-11-XXX	12/2/2010 3:30:00 PM	T	FS SW G	2																									
OC-SW-MMB-SW/SD-8A-XXX	12/2/2010 3:00:00 PM	T	FS SW G	2																									

MACTEC

Company Name: Olin Corp
 Company Contact: ERG Accounts Payable
 Address: Same as Client
 Phone: Email
 Job # Quote #
 Lab SDG # PO #

Special Instructions For Lab

Notes:
 1.) Fraction T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable
 2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank
 3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water, SO = Soil, SD = Sediment, EW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil
 4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water
 5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 45mL VOA Amber Glass Vial.

Cr+6 = 24 hour hold time
 Formaldehyde = 3 day hold time
 Relinquished: *Byline* Date: 12/2/10 Time: 1700 Received: / / Time: / /
 Relinquished: Date: / / Time: / / Received: / / Time: / /

Cooler? Y/N: MADEP Requirement: Samples Iced? Y/N
 Temp @ receipt: Deg C
 Preservation / pH checked? Y/N
 By: Date:

360-31308

Page 1 of 1

TAL - wes sac

Thursday Pickup Dec 2

Client: Olin Corporation Client Project #: 6107090016
 Address: 3855 North Ocoee St. Suite 200 Wilmington, MA Work Site ID:
 Cleveland, TN 37312 Reports Sent To: Steve Morrow
 Phone: 423-336-4511 Fax: 423-336-1466 Email: SGMorrow@olin.com
 Regulatory Programs: MADEP MCP Superfund
 Report Requirements: Level IV Package Level II Package
 EDD Requirements: MACTEC EQUIS EZ EDD

Company Name: Olin Corp
 Company Contact: ERG Accounts Payable
 Address: Same as Client
 Phone: Email
 Job #: Quote #
 Lab/SDG #: PO #

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	NDA/MNDPA (Mod 521)	Alkylphenols (MS-MS-0010)*	Cr+6 (3060A/7199)	DMF (Mod 8033 - GC/NPD)	Phthalic Anhydride (acid)	(Mod 8000 - HPLC)*	Formaldehyde/Acetaldehyde (SW-846 8315A)*	Opex / Kempore (800B - HPLC)	Perchlorate (6850)	Hydrazine, MMH, UDMH (Mod 8316 LC/MS/MS)	Zn	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	Hydrazine, MMH, UDMH (Mod 8316 LC/MS/MS)	Comments (Special Instructions)
OC-SW-MMB-SW/SD-10-XXX	12/2/2010 9:00:00 AM	T FS SW G	2 X																		
OC-SW-MMB-SW/SD-4-XXX	12/2/2010 10:00:00	T FS SW G	2 X																		
OC-SW-MMB-SW/SD-5-XXX	12/2/2010 1:15:00 PM	T FS SW G	2 X																		
OC-SW-MMB-SW/SD-8-DUP	12/2/2010 1:00:00 PM	T FD SW G	2 X																		Matrix Spike Dup
OC-SW-MMB-SW/SD-8-MSD	12/2/2010 1:00:00 PM	T IM SW G	2 X																		Matrix Spike
OC-SW-MMB-SW/SD-8-XMS	12/2/2010 1:00:00 PM	T FS SW G	2 X																		
OC-SW-MMB-SW/SD-8-XXX	12/2/2010 1:00:00 PM	T FS SW G	2 X																		

Special Instructions For Lab

- 1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable
- 2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank
- 3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water, SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil
- 4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water
- 5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial.

Cr+6 = 24 hour hold time
 Formaldehyde = 3 day hold time
 Relinquished: *[Signature]* Date: 12/2/10 Time: 10:20 Received: *[Signature]* Date: 12/2/10 Time: 10:20
 Relinquished: _____ Date: ____/____/____ Received: _____ Date: ____/____/____ Time: ____

Cooler? Y/N: MADEP Requirement: _____
 Samples cool? Y/N: _____
 Temp @ receipt: _____ Deg. C
 Preservation / pH checked? Y/N: _____
 By: _____ Date: _____

page 3 of 6

SW

TAL - Westfield

260-31308

Client: Olin Corporation Client Project #: 6107090016
 Address: 3855 North Ocoee St. Suite 200 Work Site ID: Wilmington, MA
 Cleveland, TN 37312 Reports Sent To: Steve Morrow
 Phone: 423-336-4511 Fax: 423-336-1466 Email: SGMorrow@olin.com Email Rpt:
 Regulatory Programs: MADEP MCP Superfund
 Report Requirements: Level IV Package Level II Package
 EDD Requirements: MACTEC EQUIS EZ EDD

Company Name: Olin Corp
 Company Contact: ERG Accounts Payable
 Address: Same as Client
 Phone: Email
 Job #: Quote #
 Lab SDG #: PO #

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	VOA and TICs (826B)	SVOA+TICs (827C - LL)	NDMA (827C - Low Level)	Diphenylamine (827C)**	TAL Metals (6010B/7470A)	EPH (MADEP-EPH-04-1.1)	VPH (MADEP-VPH-04-1.1)	PCBs (8082)	Amonia (LACHAT)	Anions (EPA 300)***	Pesticides (8081)	Alkalinity (SM 2320B)	Hardness (SM 2340B)	pH (SM 4500)	Conductivity (SM 2510B)	TDS (SM 2540C)	TSS (SM 2540D)	TOC (Lloyd Kahn)	COD (EPA 410.4)	Herbicides (8151A)	Comments (Special Instructions)	
OC-SW-BK-SW/SD-002-XXX	12/3/2010 1:30:00 PM																											

Special Instructions For Lab

Notes:
 1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable
 2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank
 3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water, SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil
 4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water
 5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass

** = Using Method 3620B Nitrate/Nitrite = 48 hour hold time
 *** = Sulfate, Chloride, Nitrate, Nitrite, Bromide

Relinquished: *[Signature]* Date: 12/3/10 Time: 1:30 Received: *[Signature]* Date: 12/3/10 Time: 1800
 Relinquished: *[Signature]* Date: 12/3/10 Time: 1800 Received: *[Signature]* Date: 12/3/10 Time: 1800

Cooler? Y N MADEP Requirement
 Temp @ receipt: _____ Deg C
 Preservation / pH checked? Y N
 By: JPB Date: 12/3/10
 3.8°C 2.0°C / 1.2°C

TAL - Westfield

SW

360-31308

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MACTEC

Sample ID	Date/Time Collected	Fraction (1)														Comments (Special Instructions)											
		OC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	VOA and TICs (8260B)	SVOA+TICs (8270C - LL)	NDMA (8270C - Low Level)	Diphenylamine (8270C)**	TAL Metals (6010B/7470A)	EPH (MADEP-EPH-04-1.1)	VPH (MADEP-VPH-04-1.1)	PCBs (8082)	Amonia (LACHAT)	Anions (EPA 300)***		Pesticides (8081)	Alkalinity (SM 2320B)	Hardness (SM 2340B)	pH (SM 4500)	Conductivity (SM 2510B)	TDS (SM 2540C)	TSS (SM 2540D)	TOC (Lloyd Kahn)	COD (EPA 4104)	Herbicides (8151A)	
OC-SW-BK-SW/SD-004-XXX	12/3/2010 11:00:00 AM	T	FS	SW	G	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
OC-SW-MMB-SW/SD-2-XXX	12/3/2010 10:00:00 AM	T	FS	SW	G	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
OC-SW-MMB-SW/SD-3-XXX	12/3/2010 9:00:00 AM	T	FS	SW	G	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
OC-SW-MMB-SW/SD-6-XXX	12/3/2010 12:00:00 PM	T	FS	SW	G	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Special Instructions For Lab

Notes:

- 1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable
- 2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank
- 3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water, SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil
- 4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water
- 5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass

** = Using Method 3620B

Nitrate/Nitrite = 48 hour hold time

*** = Sulfate, Chloride, Nitrate, Nitrite, Bromide

Relinquished: *[Signature]* Date: 12/3/10 Time: 1:50 Received: *[Signature]* Date: 1/1/10 Time: 18:00

Relinquished: *[Signature]* Date: 12/3/10 Time: 1:00 Received: *[Signature]* Date: 12/3/10 Time: 18:00

Cooler	Y/N	MADEP Requirement
Temp @ receipt:		Samples Iced? Y/N
Preservation / pH checked?		Deg C
By: <i>[Signature]</i>		Date: 12/3/10

3.8°C / 2.0°C / 1.2°C

360-31308

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TAL - WES SAC Surface Water

Friday Picked Dec 3

Client: Olin Corporation Client Project #: 6107090016
 Address: 3855 North Ocoee St. Suite 200 Work Site ID: Wilmington, MA
 Cleveland, TN 37312 Reports Sent To: Steve Morrow
 Phone: 423-336-4511 Fax: 423-336-1466 Email: SGMorrow@olin.com Email Rpt:
 Requested Turnaround Time (SPECIFY) Regulatory Programs: MADEP MCP Superfund
 Standard Rush (Lab Approval Required) Report Requirements: Level IV Package Level II Package
 EDD Requirements: MACTEC EQUIS EZ EDD

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	AG	AS	SA	Cr+6 (3080A / 7199)	DMF (Mod 8033 - GC/NPD)	Phthalic Anhydride (acid) (Mod 8000 - HPLC)*	Formaldehyde/Acetaldehyde (SW-846 8315A)*	Opex / Kempore (8000B - HPLC)	Perchlorate (8950)	Hydrazine, MMH, UDMH (Mod 8316 LC/MS/MS)	Zn	AV	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	Hydrazine, MMH, UDMH (Mod 8316 LC/MS/MS)	Preservative Type (4)	Bottle Type (5)	Comments (Special Instructions)
OC-SW-MMB-SW/SD-11-XXX	12/2/2010 3:30:00 PM	T	FS SW G	2 X																				
OC-SW-MMB-SW/SD-8A-XXX	12/2/2010 3:00:00 PM	T	FS SW G	2 X																				

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	AG	AS	SA	Cr+6 (3080A / 7199)	DMF (Mod 8033 - GC/NPD)	Phthalic Anhydride (acid) (Mod 8000 - HPLC)*	Formaldehyde/Acetaldehyde (SW-846 8315A)*	Opex / Kempore (8000B - HPLC)	Perchlorate (8950)	Hydrazine, MMH, UDMH (Mod 8316 LC/MS/MS)	Zn	AV	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	Hydrazine, MMH, UDMH (Mod 8316 LC/MS/MS)	Preservative Type (4)	Bottle Type (5)	Comments (Special Instructions)	
OC-SW-MMB-SW/SD-11-XXX	12/2/2010 3:30:00 PM	T	FS SW G	2 X																					
OC-SW-MMB-SW/SD-8A-XXX	12/2/2010 3:00:00 PM	T	FS SW G	2 X																					

Special Instructions For Lab

Notes:
 1.) Fraction: T = Total, D = Dissolved, S = SPLP, G = TCLP, N = Not Applicable
 2.) QC Codes: FS = Field Sample, TE = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank
 3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water, SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil
 4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water
 5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial

Cr+6 = 24 hour hold time
 Formaldehyde = 3 day hold time
 Relinquished: Chapman Date: 12/13/10 Time: 1:30 Received: [Signature] Date: 12/13/10 Time: 1:30
 Relinquished: _____ Date: ____/____/____ Received: _____ Date: ____/____/____ Time: ____:____

Cooler? Y/N	MADEP Requirement
Temp @ receipt	Samples Used? Y/N
Preservation pH checked? Y/N	Deg C
By: _____	Date: _____

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SW

TAL - Florida

Client: Olin Corporation
Address: 3955 North Coose St, Suite 200
 Cleveland, TN 37312
Phone: 423-336-4511
Fax: 423-336-1466
Reports Sent To: Steve Morrow
Work Site ID: Wilmington, MA
Client Project #: 6107090016
Company Name: Olin Corp
Company Contact: ERG Accounts Payable
Address: Same as Client
Phone: _____
Job #: _____
Lab SDG #: _____
Order #: _____
PO #: _____

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	NDMA/NDPA (Mod 521)	Alkylphenols (MS-MS-0010)	Cr+6 (3060A / 7199)	DMF (Mod 8033 - GC/NPD)	Phthalic Anhydride (actd)	(Mod 8000 - HPLC)	Formaldehyde/Acetaldehyde (SW-846 8315A)	Opex / Kampore (800B - HPLC)	Porchlorate (6850)	Hydrazine, MMH, UDMH (Mod 8316 LC/MS/MS)	Zn	AV	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	Hydrazine, MMH, UDMH (Mod 8316 LC/MS/MS)	Preservative Type (4)	Bottle Type (5)	Comments (Special Instructions)
OC-SW-MMB-SW/SD-2- XXX	12/3/2010 10:00:00	T	FS SW G 2		G	2	AG		G															
OC-SW-MMB-SW/SD-3- XXX	12/3/2010 9:00:00 AM	T	FS SW G 2		G	2																		
OC-SW-MMB-SW/SD-6- XXX	12/3/2010 12:00:00	T	FS SW G 2		G	2																		

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	NDMA/NDPA (Mod 521)	Alkylphenols (MS-MS-0010)	Cr+6 (3060A / 7199)	DMF (Mod 8033 - GC/NPD)	Phthalic Anhydride (actd)	(Mod 8000 - HPLC)	Formaldehyde/Acetaldehyde (SW-846 8315A)	Opex / Kampore (800B - HPLC)	Porchlorate (6850)	Hydrazine, MMH, UDMH (Mod 8316 LC/MS/MS)	Zn	AV	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	Hydrazine, MMH, UDMH (Mod 8316 LC/MS/MS)	Preservative Type (4)	Bottle Type (5)	Comments (Special Instructions)	
OC-SW-MMB-SW/SD-2- XXX	12/3/2010 10:00:00	T	FS SW G 2		G	2	AG		G																
OC-SW-MMB-SW/SD-3- XXX	12/3/2010 9:00:00 AM	T	FS SW G 2		G	2																			
OC-SW-MMB-SW/SD-6- XXX	12/3/2010 12:00:00	T	FS SW G 2		G	2																			

Special Instructions For Lab

Notes:
 1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable
 2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank
 3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water, SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil
 4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water
 5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial.

Cr+6 = 24 hour hold time
 Formaldehyde = 3 day hold time

Relinquished: *Ch M* Date: 12/13/10 Time: 1:50 Received: *Jerry Job* Date: 12/13/10 Time: 1:50
 Relinquished: _____ Date: / / Time: / / Received: _____ Date: / / Time: / /

Cooler? Y/N	MADEP Requirement
Temp @ receipt	Samples Cool? Y/N
Preservation: PF checked? Y/N	Deg C
By: _____	Date: _____

360-31308

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SW

TAL - SAC

Client: Olin Corporation
 Address: 3855 North Ocoee St. Suite 200
 Cleveland, TN 37312
 Phone: 423-336-4511 Fax: 423-336-1466 Email: SGMorow@olin.com
 Regulatory Programs: MADEP MCP Superfund
 Report Requirements: Level IV Package Level II Package
 EDD Requirements: MACTEC EQUIS EZ EDD

Client Project #: 6107090016
 Work Site ID: Wilmington, MA
 Reports Sent To: Steve Morrow
 Email: SGMorow@olin.com
 Email Rpt

Company Name: Olin Corp
 Company Contact: ERG Accounts Payable
 Address: Same as Client
 Phone: Email

Job #: Quote #
 Lab. SDG #: PO #

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Analysis	Method	Preservative Type (4)	Bottle Type (5)	Comments (Special Instructions)
OC-SW-MMB-SW/SD-2-XXX	12/3/2010 10:00:00	T	FS SW G	2 X	AG	Allylphenols (MS-MS-0010)*	VS	DMF (Mod 8033 - GC/NPD)	Cr+6 (7199)		
OC-SW-MMB-SW/SD-3-XXX	12/3/2010 9:00:00 AM	T	FS SW G	2 X	AG	Phthalic Anhydride (acid)	AG	DMF (Mod 8033 - GC/NPD)	Cr+6 (7199)		
OC-SW-MMB-SW/SD-6-XXX	12/3/2010 12:00:00	T	FS SW G	2 X	AG	Formaldehyde/Acetaldehyde	AG	DMF (Mod 8033 - GC/NPD)	Cr+6 (7199)		

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Analysis	Method	Preservative Type (4)	Bottle Type (5)	Comments (Special Instructions)
OC-SW-MMB-SW/SD-2-XXX	12/3/2010 10:00:00	T	FS SW G	2 X	AG	Allylphenols (MS-MS-0010)*	VS	DMF (Mod 8033 - GC/NPD)	Cr+6 (7199)		
OC-SW-MMB-SW/SD-3-XXX	12/3/2010 9:00:00 AM	T	FS SW G	2 X	AG	Phthalic Anhydride (acid)	AG	DMF (Mod 8033 - GC/NPD)	Cr+6 (7199)		
OC-SW-MMB-SW/SD-6-XXX	12/3/2010 12:00:00	T	FS SW G	2 X	AG	Formaldehyde/Acetaldehyde	AG	DMF (Mod 8033 - GC/NPD)	Cr+6 (7199)		

Special Instructions For Lab

Notes:
 1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable
 2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank
 3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water, SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil
 4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water
 5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial

Cr+6 = 24 hour hold time
 Formaldehyde = 3 day hold time
 Relinquished: *John Smith* Date: 12/3/10 Time: 1:52 Received: *Jerry Paul* Date: 12/3/10 Time: 4:30
 Relinquished: _____ Date: ____/____/____ Time: ____:____ Received: _____ Date: ____/____/____ Time: ____:____

Cobler? Y/N	MADEP Requirement
Temp @ receipt	Samples Iced? Y/N
Preservation pH checked? Y/N	Deg C
By _____	Date _____